

SUMMARY: 1970-80

Issued: November 1986

CENTERS FOR DISEASE CONTROL
YOUTH SUICIDE
SURVEILLANCE



Division of Injury Epidemiology and Control
Center for Environmental Health

PREFACE

This report analyzes vital statistics data from the National Center for Health Statistics on suicide deaths among youth (ages 15-24) in the United States for the period 1970-1980. It is intended for use by clinicians, health planners and evaluators, and other public health professionals interested in the number and characteristics of youth suicide. This report is a companion report to the April 1985 report on suicide deaths to all persons in the United States for the same time period.

SUGGESTED CITATION: Centers for Disease Control:
Youth Suicide in the United States, 1970-1980 Issued November 1986

Center for Environmental Health* Vernon N. Houk, M.D., Director
Division of Injury Epidemiology and Control Stuart T. Brown, M.D., Director
Mark L. Rosenberg, M.D., M.P.P., Assistant Director for Science
Donna C. Hiatt, Secretary
Intentional Injury Staff James A. Mercy, Ph.D., Scientist
Patrick W. O'Carroll, M.D., M.P.H., Epidemic Intelligence Service Officer
Jack C. Smith, M.S., Senior Statistical Consultant
Judith M. Conn, M.S., Statistician

*Work on this report was begun under the auspices of the Center for Health Promotion and Education (Dennis D. Tolsma, M.P.H., Director) in what was then the Violence Epidemiology Branch.

Partial support for this report was provided by the National Institute of Mental Health.

**YOUTH SUICIDE
in the
United States, 1970-1980**

DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control
Center for Environmental Health
Division of Injury Epidemiology and Control
Atlanta, Georgia 30033

1986

YOUTH SUICIDE IN THE UNITED STATES, 1970-1980

TABLE OF CONTENTS

	Page
Summary	1
I. Introduction	1
II. Data and Methods	2
A. Data Sources	2
1. Suicide data	2
2. Population data	2
B. Methods	3
III. Highlights of Findings	3
IV. Discussion	4
A. Validity and Limitations of Suicide Statistics	4
B. Demographic Characteristics of Persons Committing Suicide	5
C. Risk Factors	5
D. Prevention	6
V. References	7
VI. Appendices	8
A. Suicide Statistics for Selected Years, 1950-1980	8
B. International Classification of Disease (ICD) Codes for Suicide	11
C. Definitions of Variables	12
D. Comparison Table of Suicide Rates	13
E. Map of Geographic Regions	13
F. Number of SMSA and Non-SMSA Counties for Each State and the United States	14
VII. Figures	15
Figure 1. Suicide Rates for All Persons 15-24 Years of Age by Age Group, United States, 1970-1980	15
Figure 2. Suicide Rates for All Persons 15-24 Years of Age by Race and Sex, United States, 1970-1980	16
Figure 3. Suicide Rates for All Persons 15-19 Years of Age by Race and Sex, United States, 1970-1980	17
Figure 4. Suicide Rates for All Persons 20-24 Years of Age by Race and Sex, United States, 1970-1980	18
Figure 5. Suicide Rates for All Persons 15-24 Years of Age by Geographic Region, United States, 1970-1980	19
Figure 6. Suicide Rates for All Persons 15-19 Years of Age by Geographic Region, United States, 1970-1980	20
Figure 7. Suicide Rates for All Persons 20-24 Years of Age by Geographic Region, United States, 1970-1980	21
Figure 8. Suicide Rates for All Persons 15-24 Years of Age by State of Residence, United States, 1980	22
Figure 9. Suicide Rates for All Persons 15-24 Years of Age by SMSA Status, United States, 1970-1978	23
Figure 10. Suicide Rates for All Persons 15-19 Years of Age by SMSA Status, United States, 1970-1978	24

Figure 11. Suicide Rates for Persons 20-24 Years of Age by SMSA Status, United States, 1970-1978	25
Figure 12. Percent of Suicides for Males 15-24 Years of Age by Method of Suicide, United States, 1970-1980	26
Figure 13. Percent of Suicides for Males 15-19 Years of Age by Method of Suicide, United States, 1970-1980	27
Figure 14. Percent of Suicides for Males 20-24 Years of Age by Method of Suicide, United States, 1970-1980	28
Figure 15. Percent of Suicides for Females 15-24, Years of Age by Method of Suicide, United States, 1970-1980	29
Figure 16. Percent of Suicides for Females 15-19 Years of Age by Method of Suicide, United States, 1970-1980	30
Figure 17. Percent of Suicides for Females 20-24 Years of Age by Method of Suicide, United States, 1970-1980	31

VIII. Tables

Table 1. Number of suicides and suicide rates for all persons 15-24 years of age by age group, race, sex, and year, United States, 1970-1980	32
Table 2. Number of suicides and suicide rates for all persons 15-24 years of age by age group, geographic region, State, and year, United States, 1970-1980	35
Table 3. Number and percent of suicides for all persons 15-24 years of age by sex, method of suicide, and year, United States, 1970-1980	50
Table 3A. Number and percent of suicides for all persons 15-19 years of age by sex, method of suicide, and year, United States, 1970-1980	52
Table 3B. Number and percent of suicides for all persons 20-24 years of age by sex, method of suicide, and year, United States, 1970-1980	54
Table 4. Number and percent of suicides for all persons 15-24 years of age by age group and SMSA status by State, United States, 1970 and 1978	56
Table 5. Suicide rates for all persons 15-24 years of age by age group and SMSA status by State, United States, 1970 and 1978	64

SUMMARY

Between 1970 and 1980, 49,496 of the Nation's youth (15-24 years of age) committed suicide. The suicide rate for this age group increased 40% (from 8.8 deaths per 100,000 population in 1970 to 12.3 per 100,000 in 1980), while the rate for the remainder of the population remained stable.

This increase in youth suicide is due primarily to an increasing rate of suicide among young males: rates for males increased by 50% (from 13.5 to 20.2) compared with a 2% increase for females (4.2 to 4.3), so that by 1980, for this age group, the ratio of suicides committed by males to those committed by females was almost 5 to 1. Most (89.5%) young male suicide victims were white. Moreover, the white male group showed a marked upward trend in suicide rates from 1970-1980; in fact, suicide rates for young white men have increased in each of the past three decades. Although rates increased for young males of black and other races, their rates remained lower than rates for young white males. Rates for young white females and for females of black and other races were approximately equal and relatively stable over time.

Young adults (20-24 years of age) had approximately twice the number and rate of suicides as teenagers 15-19 years old.

The western United States had consistently higher youth suicide rates from 1970 to 1980 than the other three regions (North Central, Northeastern, and Southern). However, this difference in rates narrowed substantially by 1980 because rates for each of the other regions increased over the period.

The method of suicide changed dramatically from 1970 to 1980. The proportion of suicides committed by firearms increased for both young males and females, and the proportion of both males and females committing suicides by poisoning declined. The changes were more marked among females who have in the past committed suicide most commonly by poisoning.

Data show that among persons 15-24 years of age, young white male adults (20-24 years old) have the highest suicide risk. Further research is needed to explain the marked increase in suicide among young white males, to characterize their deaths more precisely, and to develop and evaluate effective ways to prevent these deaths.

I. INTRODUCTION

In the past 30 years the suicide rate among youth of the United States (15-24 years of age) has increased dramatically (see Appendix A). The rate began to increase markedly in the mid-1950's and had almost tripled by 1980, moving suicide from the fifth leading cause of death in this age group in 1960 to the third leading cause in 1980. Because of this increase in suicide among the Nation's youth, the U.S. Department of Health and Human Services (DHHS) established the following specific health objective:

By 1990, the rate of suicide among people 15-24 years of age should be below 11 per 100,000 (compared with 12.4 per 100,000 in 1978) (1)*.

The Centers for Disease Control (CDC) and the National Institute of Mental Health (NIMH) have the responsibility for monitoring and promoting progress toward this objective. To fulfill this responsibility, it is important to document the trends, characteristics, and rates of suicide in this high-risk group — at national, regional, and State levels — from 1978 to the year 1990.

No detailed compilation of national suicide statistics has been published since 1964 (2). This CDC report provides both selected background statistics for the 8-year period which precedes the base year (1978) and statistics for monitoring the objective for 1979-1980.

We believe that an understanding of statistical patterns for the period 1970-1980 will help:

1. Public health officials plan and implement strategies for decreasing the suicide rate to 11.0 by 1990.
2. Researchers and professionals in health, social services, and education plan and direct suicide prevention programs.
3. Stimulate State and local public health agencies to produce and disseminate timely suicide statistics.
4. Stress the importance of progress toward achieving the stated 1990 youth suicide objective.

This report is organized into two parts: (1) a graphic presentation of data highlights focusing on a national perspective of characteristics and trends of youth suicide; and (2) detailed tables of the number, percent, and rate of youth suicide for the years 1970-1980.

*Subsequent to the development of the 1990 health objectives for the Nation, the 1978 suicide rate for persons 15-24 years of age was revised by using updated population estimates based on information from the 1980 U.S. Census. The revised suicide rates for 1978 is 12.1 rather than 12.4.

II. DATA AND METHODS

A. Data Sources

Two types of data were used to produce this report: (1) numbers of deaths due to suicide and (2) population data for calculating suicide rates per 100,000 population.

1. Suicide data

Suicide deaths of persons 15-24 years of age for each year 1970-1980 were extracted from national mortality computer files compiled by the National Center for Health Statistics (NCHS). These files are produced as a part of the National Vital Statistics system. NCHS creates these files from death certificate information provided to them by the 50 States and the District of Columbia. Suicides in this report are those deaths identified as having cause of death codes E950-E959 (International Classification of Disease, Adapted-Eighth Revision, for 1970-1978, and International Classification of Disease, Ninth Revision, for 1979-1980). The titles for the cause-of-death categories for suicide used for this report are identical under the Eighth and Ninth Revisions and the comparability ratio between the two revisions is near unity (3). A description of the codes is given in Appendix B. Suicide deaths of nonresident aliens and U.S. citizens living abroad are excluded from this report.

The following variables on each suicide death were available for analysis: age, race, sex, place of residence, place of occurrence, date of death, cause of death. Appendix C provides a detailed description of the variable definitions.

2. Population data

Special estimates prepared by the U.S. Bureau of the Census for the National Cancer Institute were used to compute rates in this report for the years 1970-1978. These data for the Nation and for each State and county were unpublished population estimates for each year 1970-1978 by age, race (white and black and other races only), and sex. Additionally, NCHS provided unpublished population estimates for the black population, at the national level only, for each year 1970-1978 by age and sex.

Unpublished population statistics of U.S. residents provided by NCHS were used to compute rates for 1979-1980. The NCHS population statistics were developed by the U.S. Bureau of the Census based on information from the 1970 and 1980 U.S. Census. Population data used to compute rates for each State and region in 1980 were obtained from the U.S. Bureau of the Census Statistical Tape File 1-C (STF1-C), which contains information on the 1980 U.S. population for each county and State by age, race, and sex.

Updated population estimates for the intercensal years 1971-1979 have recently become available based on information from the 1980 U.S. Census; however, these estimates are available only at the national level. Because this report provides information at the State and metropolitan/nonmetropolitan geographic level of detail as well as the national level, for this report, we elected to use national population estimates that were consistent with the State estimates. That is, the sum of State-level population estimates is equal to the national-level by age, race, and sex. The overall difference in national-level rates in our report and rates based on updated population estimates is shown in Appendix D.

B. Methods

Suicide records for 49,496 persons 15-24 years of age were extracted for processing from the 21.2 million death records on the 1970-1980 NCHS national mortality computer files. The following analysis categories were used for producing tabulations:

Variable	Analysis Category
Age:	3 age groups: 15-19, 20-24, 15-24
Race:	White, Black, and all Other races or White and the combined category of Black and Other Races
Sex:	Male and Female
Place of Residence:	Four geographic regions as defined by the U.S. Census: Northeast, North Central, South, and West (Appendix E shows a map of the U.S., by geographic region.)
Date of death:	Single year and total for the years 1970-1980
SMSA*, non-SMSA status:	Combined SMSA counties and combined non-SMSA counties within each of the 50 States and nationally.** (Appendix F provides the number of SMSA and non-SMSA counties for each State. Note that Alaska, Vermont, and Wyoming have no counties designated as SMSA counties and the District of Columbia and Rhode Island have no non-SMSA counties.) Data are presented for 1970 and 1978 only because changes occurred in the 1980 definition and designation of SMSA's that made comparisons with 1980 SMSA data impractical.
Cause of death:	Five methods of suicide based on groupings of ICDA-8 and ICD-9 cause of death codes: Firearms and explosives (E955)*** Hanging, strangulation, and suffocation (E953) Poisoning by solid or liquid substance (E950) Poisoning by gases (E951-E952) Other means (E954, E956, E957, E958, E959)

*Standard Metropolitan Statistical Areas are defined by the U.S. Bureau of the Census (4).

**The county coding scheme and identification of SMSA counties are not identical on the NCHS mortality files and the U.S. Bureau of the Census Population Files. A decision was made to apply the 1970 Census definition of SMSA county.

***In 1980, fewer than 1% of all deaths in this category were caused by explosives.

All detailed tables in this report present data for each of three age groupings, 15-19, 20-24, and 15-24. Tables 1, 2, 3, 3A, and 3B present data for each year from 1970 through 1980. Tables 4 and 5 present data for 1970 and 1978 only.*

III. HIGHLIGHTS OF FINDINGS

Highlights of this report are shown in Figures 1-17 of this section, based on data from detailed Tables 1-5. The Figures present graphically the patterns and trends of suicide for youth from a primarily national perspective.

The suicide rate for all persons 15-24 years of age increased from 8.8 to 12.3 between 1970 and 1980 (Figure 1). The rate for persons 20-24 years of age was approximately twice the rate for persons 15-19 throughout the period. Between 1970 and 1980 the rate of increase in suicide was greater for the 15- to 19-year age group (44.1%) than for 20-24 year olds (32.0%).

For persons 15-24 the suicide rate was higher for males than females for both whites and persons of black and other races (Figure 2). The rate for both white males and males of black and other races increased substantially from 1970 to 1980, 55.1% and 20.2%, respectively. The white female rate, which was relatively low compared with male rates, increased by 9.5%. The rate for black and other females declined 34.1%. The suicide rate for black and other persons of both sexes was unexplainably higher in 1972.

*Data for Tables 4 and 5 for the intervening years 1971-1977 have also been produced and are available on request but are not included in this report. The data on SMSA status for the national level for all years 1970-1978 are included in Figures 9-11.

Patterns of suicide rates by race and sex are similar for both the 15- to 19- and 20- to 24-year age groups, with male rates higher than female rates for both racial groups (Figures 3 and 4). Suicide rates, however, are consistently higher for persons 20-24 than for persons 15-19 for all race and sex groups. In both age groups, 15-19 and 20-24, white males had the greatest rate of increase in suicide rates over the period — a 61.3% increase for 15- to 19-year-old white males and a 44.8% increase for 20- to 24-year-olds.

For persons 15-19, white males had an increase in the suicide rate between 1970 and 1980 (61.3%) that was almost twice the increase of black and other males (36.4%). While white females 15-19 had a modest increase of 13.8% in their suicide rate, and rates for females of black and other races were lower in 1980 than 1970.

Patterns of suicide rates by geographic regions show that the West has had consistently higher rates (Figure 5). However, the rates in the West were slightly lower at the ending of the period (14.5) than at the beginning (15.3), while rates increased markedly for the other three regions. This same pattern holds for both the 15- to 19- and 20- to 24-year age groups (Figure 6 and 7).

In 1980, suicide rates for persons 15-24 years of age ranged from a low of 8.6 in the District of Columbia to a high of 26.4 in Nevada. States with the highest suicide rates are located west of the Mississippi River with the exception of Florida and Vermont (Figure 8).

For the 9-year period 1970-1978, the suicide rate for all persons 15-24 was consistently higher in the metropolitan (SMSA) areas than the nonmetropolitan (non-SMSA) areas (Figure 9). Suicide rates increased by more than half (54.2%) for persons 15-24 living in non-SMSA's and increased by more than a third (36.8%) for persons 15-24 living in SMSA's. The SMSA and non-SMSA suicide rates for 15- to 19-year-olds converged during the 1970-1978 period because the rate for the non-SMSA areas increased more rapidly than the rate for the SMSA areas (Figure 10). The SMSA and non-SMSA suicide rates for 20- to 24-year-olds, however, continued to parallel each other (Figure 11).

The most frequent method of suicide for males 15-24 years of age was firearms* (and explosives) during the period 1970-1980 (Figure 12). The category hanging, strangulation, and suffocation was the second most common method for males throughout the period. The primary change in methods for males was an increase in the use of firearms from 51.9% in 1970 to 64.3% in 1980 and a decline in poisoning by solid or liquid substances (primarily drug-related) from 14.1% in 1970 to 5.0% in 1980. The same pattern of increased use of firearms and decreased use of drugs existed for males in both the 15- to 19- and 20- to 24-year age groups (Figures 13 and 14).

For females 15-24, the leading method of suicide changed between 1970 and 1980, from drugs to firearms (Figure 15). The change was due to both a marked increase in firearm suicides and a concomitant decrease in drug-related suicides. The proportion of suicide deaths by firearms increased for 15- to 24-year-old females from less than 1/3 (32.3%) in 1970 to more than 1/2 (52.5%) in 1980, while drug-related suicides decreased from 42.4% in 1970 to 20.0% in 1980. Suicide deaths for females by the other methods were low and changed very little over time. The same pattern of increased use of firearms and decreased use of drugs existed for females in both the 15- to 19- and 20- to 24-year age groups (Figures 16 and 17). This is the same pattern as described for males.

IV. DISCUSSION

A. Validity and Limitations of Suicide Statistics

Suicide is clearly a very important public health problem in the United States today. Suicide is the third leading cause of death among young persons 15 to 24 years of age and the fifth leading cause of years of potential life lost for all Americans. But these rankings are based on death certificate data and probably represent a significant degree of misclassification and subsequent underreporting of suicide as a cause of death. In a recent survey of 200 medical examiners, more than half felt that the reported number of suicides is probably less than half the true number (5).

The limited accuracy and reliability of suicide statistics are, in part, attributable to the lack of a commonly accepted and applied definition of suicide. Judgments by physicians, coroners, and medical examiners play a part in the process by which suicides are classified, but there are no uniform criteria for the classification of suicide to guide these judgments. Coroners or medical examiners in neighboring counties may use very different criteria to classify deaths as suicide. For example, one coroner may refuse to classify any death as a suicide unless there is a signed suicide note from the victim; on the other hand, another coroner may classify a death as a suicide without any note, based on autopsy evidence and interviews with the family of the decedent.

*In 1980, all but 8 of 15,404 suicide deaths in the U.S. in the category "firearms and explosives" were due to firearms.

In addition to variability in the criteria for the classification of suicide, personal biases, incomplete information, and pressure from the family and community probably contribute to a marked underreporting of suicide. Without explicit criteria for making a decision, coroners or medical examiners may be even more susceptible to such pressures.

There is currently under way an effort to develop operational criteria for the classification of suicide. Representatives from interested organizations* have been working to develop a set of criteria that will help decision makers (primarily coroners and medical examiners) collect and utilize the type of information necessary to make the classification of suicide more accurate and reliable throughout the United States.

This report analyzes data up to 1980 and does not cover the years from 1981 to 1985. The current system for collecting vital statistics data from towns, counties, and states, and compiling them at the national level has a built-in time lag of 2 to 3 years. This system does not allow for either up-to-date monitoring of trends or the detection and timely intervention in discrete or localized increases in suicide rates. States or communities that analyze suicide rates within their own jurisdiction, however, may be able to detect and intervene more effectively in localized increases in suicide rates.

Death certificates contain little information that would help to explain the causes of suicide. They do not provide the decedent's socioeconomic status or describe how it may have recently changed; nor do they provide information on the decedent's history of mental illness, family history of mental illness or suicide, family structure, or history of drug or alcohol use.

B. Demographic Characteristics of Persons Committing Suicide

In the period 1970-1980, one out of every six suicides reported in the United States was to a young person 15-24 years of age. The suicide rate for this age group increased 40% from 1970 to 1980, while the rate for the remainder of the population remained stable. This increase in youth suicide is due primarily to an increasing number and rate of suicide among males. Rates for males increased by 49.6% compared with a 2.4% increase for females so that by 1980 the ratio of suicides committed by young males to those committed by young females was almost 5 to 1. Most (89.5%) male suicide victims were white, and the white male group was the race-sex category with the most marked upward trend in suicide rates.

Young adults (20-24 years old) consistently had approximately twice the number and rate of suicides as adolescents 15-19 years old. Although in 1980 suicide rates for persons 15-24 years old (12.3) were still lower than rates for persons 65 years old and older (17.8), a greater number of suicides occurred among persons 15-24 years old (5239) than among persons 65 years old and older (4537). Thus, suicides among young persons represent a very large part of the total suicide burden borne by society.

Among all persons 15-24 years of age, white males 20-24 years old have the highest suicide risk. In 1978, the base year for the 1990 objectives, suicides to white males 20-24 years of age accounted for almost half (47.8%) of all suicides to the 15- to 24-year-old population. The 1978 suicide rate for white males 20-24 (28.1) was more than twice the rate of the overall target population as stated by the objectives (12.4). Statistically, if by 1990 there were a 25% reduction in the suicide rate for white males 20-24 years of age (from 28.1 to 21.1), and even if the rates for other age, race, and sex groups remained unchanged from their 1978 rates, the overall 1990 objective (a rate of 11.0 for all persons 15-24) could be achieved. Research is needed to explain the high rate of suicide among young males and to characterize their deaths more precisely.

Although suicide rates are lower for young males of black and other races than for young white males, rates for black and other males 15-24 years of age more than doubled between 1950 and 1980 (Appendix A, Table A). Furthermore, a greater proportion of all suicides to black and other males were among the young. In 1980, 28.4% of all suicides among males of black and other races were to persons 15-24 years of age; for whites the percent was 20.5.

C. Risk Factors

Suicide among young persons is a priority concern of the Division of Injury Epidemiology and Control, Center for Environmental Health, Centers for Disease Control (CDC). CDC is currently studying youth suicide patterns to determine risk factors that can define subpopulations of teens and young adults at highest risk. A risk factor for suicide is an attribute or exposure that is associated with an increased likelihood of suicide. Some factors, such as mental illness, hopelessness, or a family history of suicide have already been associated with increased susceptibility to suicide (6-9). Additional research is needed to better characterize other possible risk factors such as emotional stress, family structure, and drug and alcohol abuse.

*These organizations include the American Academy of Forensic Sciences, American Association of Suicidology, Association of Vital Records and Health Statistics, Centers for Disease Control, International Association of Coroners and Medical Examiners, National Association of Counties, National Association of Medical Examiners, and the National Center for Health Statistics.

Another possible risk factor is “exposure to suicides” in one’s social network. Direct exposure may occur through a friend or classmate’s suicide; indirect exposure to suicide may also occur through news reports, books, movies, or discussions. Research has not yet been completed to determine the effects of exposure to previous suicides on subsequent suicides. Apparent clusters of suicides have been reported among young persons in many areas of the United States, but the number of such clusters that occur is not known (10). While there is no reporting system in place for apparent clusters or unusual aspects of youth suicides, CDC welcomes such reports. Information should be forwarded through local and State health officials to Intentional Injury, Division of Injury Epidemiology and Control, Center for Environmental Health, Centers for Disease Control, Atlanta, Georgia 30333.

D. Prevention

Identifying particular risk factors for youth suicide in a community would allow prevention efforts to be directed towards the most vulnerable persons. Characterizing those susceptible individuals will help to improve the design of interventions, focus implementation efforts, and lead to more precise evaluation of these prevention activities. For example, if most young persons who commit suicide are depressed males, then recognition and appropriate treatment of depressed young males should be an effective way to prevent many suicides. However, if most young males who commit suicide are not depressed, then a strategy that relies on the identification and treatment of depression would not be effective in prevention.

To date, the most widespread suicide prevention efforts have been made through suicide prevention centers or crisis intervention units. The range of services provided includes 24-hour “hot lines,” counseling, referral, and group therapy for both persons at risk and “survivors.” Special educational programs are also being developed for schools to address the topic of suicide. However, the effectiveness of these and other preventive services or educational efforts has not yet been fully evaluated. Most of these preventive services are broadly targeted, for example, to all persons in grades 9-12, or to all people who would want to use a hot line. Several factors make it difficult to evaluate the effectiveness of these programs:

1. Some programs, such as a health education program for junior high school students, may have their effect several years later.
2. Suicide is a relatively rare event, so that even high rates like 20-40 per 100,000 young people annually mean, for example, that an average of only 0.2-0.4 suicides would be likely to occur in a group of 1,000 students in any given year.
3. Suicide prevention services are probably offered in those communities where there is a high perceived need for such services, where the suicide rate had been higher than otherwise expected. Thus, suicide prevention services might be situated as a result of high suicide rates, rather than the high suicide rates reflecting a lack of suicide prevention center effectiveness.
4. Because suicide is usually the end result of many different factors, many programs that are not directly aimed at suicide prevention — such as special education programs or family counseling services for adolescents with behavioral problems — may have an effect on the suicide rate. In any particular location, these indirect programs may be more important than programs designed to prevent suicide.
5. People who utilize crises hot lines rarely provide enough personal information to permit the type of follow-up necessary to measure hot-line effectiveness.
6. The population utilizing crisis services may represent suicide attempters; the population of persons who actually go on to commit suicide may not utilize such services.

While some efforts have been made to evaluate the effectiveness of suicide prevention centers (11), more work is needed to assess the effectiveness of specific types of services (such as 24-hour hot lines, walk-in counseling, groups for suicidal persons and their families, or crisis center-sponsored outreach programs in the community). It is also critically important to design and evaluate programs targeted to high-risk individuals as well as educational programs, programs designed to improve the identification and treatment of depression, and programs to reduce access to lethal means of suicide. Epidemiologic analyses will help to identify risk factors that might be compiled to effectively identify high-risk individuals.

V. REFERENCES

1. Promoting Health/Preventing Disease. Objectives for the Nation. Washington, D.C.: Public Health Service, DHHS, U.S. Government Printing Office, Fall 1980.
2. National Center for Health Statistics. Suicide in the United States, 1950-1964. Washington, D.C.: U.S. Government Printing Office, August 1967, (series 20, no. 5).
3. National Center for Health Statistics: Estimates of selected comparability ratios based on a dual coding of 1976 death certificates by the Eighth and Ninth Revisions of the International Classification of Diseases. A.J. Klebba and J.H. Scott. Monthly Vital Statistics Report, Vol. 28, No. 11 Supplement (DHEW Pub. No. (PHS) 80-1120), February 29, 1980.
4. U.S. Bureau of the Census: Census of Population: 1970: General population characteristics. Final Report PC(1)-131 United States Summary. Washington, D.C.: U.S. Government Printing Office, 1972.
5. Jobs DA, Berman AL, Josselsen AR. The impact of psychological autopsies on medical examiners' determination of manner of death. *J Forensic Sci, JFSCA*, January 1986; 31(1):177-89.
6. Sudak HS, Ford AB, Rushforth NB, eds. *Suicide in the young*. Boston, Massachusetts: John Wright, PSG Inc., 1984.
7. Beck AT, Steer RA, Kovacs M, Garrison B. Hopelessness and eventual suicide: a 10-year prospective study of patients hospitalized with suicidal ideation. *Am J Psychiatry* 1985; 142(5):559-63.
8. Kosky R. Childhood suicidal behavior. *J Child Psychol Psychiat* 1983; 24(3); 457-68.
9. Motto JA, Heilbron DC, Juster RP. Development of a clinical instrument to estimate suicide risk. *Am J Psychiatry* 1985; 142(6):680-6.
10. Davidson L, Gould MS. Contagion and media. Presented at the National Conference on Risk Factors for Youth Suicide, May 8-9, 1986, Task Force on Youth Suicide. National Institutes of Health, Bethesda, Maryland.
11. Miller HL, Coombs DW, Leeper JD, Barton SN. An analysis of the effects of suicide prevention facilities on suicide rates in the United States. *Am J Pub Health* 1984; 74:340-3.

APPENDIX A: SUICIDE STATISTICS FOR SELECTED YEARS, 1950-1980

Background suicide statistics for selected years 1950-1980 have been prepared for persons 15 to 24 years of age by age group, race, and sex.

Table A of this Appendix summarizes youth suicide for 1950, 1960, 1970, and 1980. In 1950, 5.8% of all suicide deaths in the nation were youth suicides (ages 15-24). By 1980 almost one in five suicide deaths (19.5%) were youth suicides and the rate has increased from 4.5 deaths per 100,000 population to 12.3.

Table B shows the percent change in suicide rates between 1950 and 1960, 1960 and 1970, 1970 and 1980, and the change over the total time period 1950 to 1980. Overall youth suicide rates increased by 173.3% between 1950 and 1980 for the 15- to 24-year age group. The percent increase in suicide rate between 1950 and 1980 was greater for persons 15-19 years of age (214.8%) than for persons 20-24 (159.7%).

For all race and sex groups the greatest percent change in suicide rates for youths 15-24 years of age was between 1960 and 1970. The overall percent increase in suicide rates for males between 1950 and 1980 (210.8%) was more than three times the percent increase for females (65.4%). Within each of the two age categories 15-19 and 20-24, white males had the greatest percent increase in the suicide rate between 1960 and 1980, a 305.4% increase for 15- to 19-year olds and a 195.7% increase for 20- to 24-year olds.

Table A
Selected Suicide Statistics for Persons 15-24 Years of Age
by Age Group, Race, and Sex, U.S., Selected Years 1950-1980

Year	Age Group								Total
	15-19			20-24			15-24		% of a Suicides
	No. of Suicides	Rate*	% of all Suicides**	No. of Suicides	Rate*	% of all Suicides**	No. of Suicides	Rate*	
White Male									
1950	172	3.7	1.3	469	9.4	3.7	641	6.6	5.0
1960	345	5.9	2.5	555	11.9	4.0	900	8.6	6.5
1970	778	9.3	5.0	1338	19.2	8.6	2116	13.8	13.6
1980	1352	15.0	7.2	2529	27.8	13.4	3881	21.4	20.5
White Female									
1950	87	1.9	2.3	181	3.5	4.9	268	2.7	7.2
1960	91	1.6	2.1	149	3.1	3.5	240	2.3	5.6
1970	232	2.9	3.6	417	5.6	6.4	649	4.2	10.0
1980	283	3.3	4.8	528	5.9	8.9	811	4.6	13.7
Black and Other Male									
1950	14	2.2	2.6	51	8.5	9.4	65	5.3	12.0
1960	27	3.4	3.8	49	7.8	6.9	76	5.3	10.6
1970	73	5.5	7.0	189	19.7	18.2	262	11.4	25.2
1980	131	7.5	8.2	324	20.9	20.2	455	13.7	28.4
Black and Other Female									
1950	10	1.5	7.4	13	1.9	9.6	23	1.7	17.0
1960	12	1.5	5.8	11	1.6	5.3	23	1.5	11.2
1970	40	3.0	10.4	61	5.6	15.9	101	4.1	26.4
1980	31	1.8	7.1	61	3.6	14.0	92	2.7	21.1
All Males									
1950	186	3.5	1.4	520	9.3	3.9	706	6.5	5.3
1960	372	5.6	2.6	604	11.5	4.2	976	8.2	6.7
1970	851	8.8	5.1	1527	19.2	9.2	2378	13.5	14.3
1980	1483	13.8	7.2	2853	26.8	13.9	4336	20.2	21.1
All Females									
1950	97	1.8	2.5	194	3.3	5.0	291	2.6	7.6
1960	103	1.6	2.3	160	2.9	3.6	263	2.2	5.8
1970	272	2.9	4.0	478	5.6	7.0	750	4.2	10.9
1980	314	3.0	4.9	589	5.5	9.3	903	4.3	14.2
Total Both Sexes									
1950	283	2.7	1.7	714	6.2	4.2	997	4.5	5.8
1960	475	3.6	2.5	764	7.1	4.0	1239	5.2	6.5
1970	1123	5.9	4.8	2005	12.2	8.5	3128	8.8	13.3
1980	1797	8.5	6.7	3442	16.1	12.8	5239	12.3	19.5

*Rate Per 100,000 population in each age, race, and sex category

**Calculated as the percentage of all (total for all age groups) suicide deaths occur in each race and sex category.

Table B
Percent Change in Suicide Rates for Persons
15-24 Years of Age by Age Group, Race, and Sex
U.S., Selected Years, 1950-1980

Years	Age Group		Total
	15-19	20-24	15-24
White Males			
1950-1960	59.5	26.6	30.3
1960-1970	59.3	62.2	61.6
1970-1980	61.3	44.8	55.1
1950-1980	305.4	195.7	224.2
White Female			
1950-1960	-15.8	-11.4	-14.8
1960-1970	81.2	83.9	82.6
1970-1980	13.8	5.4	9.5
1950-1980	73.7	68.6	70.4
Black and Other Male			
1950-1960	54.5	-8.2	0.0
1960-1970	58.8	148.7	113.2
1970-1980	36.4	6.1	20.2
1950-1980	240.9	145.9	160.4
Black and Other Female			
1950-1960	0.0	-15.8	-11.8
1960-1970	93.3	243.8	173.3
1970-1980	-40.0	-35.7	-34.1
1950-1980	20.0	89.5	58.8
All Males			
1950-1960	60.0	23.7	26.2
1960-1970	57.1	67.8	64.6
1970-1980	56.8	39.6	49.6
1950-1980	294.3	188.2	210.8
All Females			
1950-1960	-11.1	-12.1	-15.4
1960-1970	81.2	96.6	90.9
1970-1980	3.4	-1.8	2.4
1950-1980	66.7	66.7	65.4
Total Both Sexes			
1950-1960	33.3	14.5	15.6
1960-1970	63.9	71.8	69.2
1970-1980	44.1	32.0	39.8
1950-1980	214.8	159.7	173.3

APPENDIX B:

INTERNATIONAL CLASSIFICATION OF DISEASE (ICD) CODES FOR SUICIDE* SUICIDE AND SELF-INFLICTED INJURY (E950-E59)

Includes: injuries in:
suicide and attempted suicide
self-inflicted injuries specified as intentional

E950 Suicide and self-inflicted poisoning by solid or liquid substances

E951 Suicide and self-inflicted poisoning by gases in domestic uses

E952 Suicide and self-inflicted poisoning by other gases and vapors

E953 Suicide and self-inflicted injury by hanging, strangulation, and suffocation

E954 Suicide and self-inflicted injury by submersion (drowning)

E955 Suicide and self-inflicted injury by firearms and explosives

E956 Suicide and self-inflicted injury by cutting and piercing instruments

E957 Suicide and self-inflicted injury by jumping from high place

E958 Suicide and self-inflicted injury by other and unspecified means

Includes: suicide and self-inflicted injury by any other means, including unspecified means, except those classifiable under E950-E957, such as suicide or attempted suicide by burns, fires, caustic substances, except poisoning; electrocution; extremes of cold; jumping or lying before train, vehicle, or other moving object; unspecified means; scald; crashing of motor vehicle; crashing of aircraft.

E959 Late effects of self-inflicted injury

Includes: death or disability reported as late effect of or occurring as sesquela 1 year or more after attempted suicide or self-inflicted injury classifiable to E950-E958

*ICD codes for ICDA-8 that went into effect in 1968 and ICD-9 codes that went into effect in 1979 are identical for 3-digit codes.

APPENDIX C: DEFINITIONS OF VARIABLES

A. National Center for Health Statistics (NCHS), National Mortality files

1. Age

Age is coded by single year of age as of the decedent's last birthday.

2. Race

The racial categories on the mortality file are: white, black, Chinese, Japanese, Indian (includes American, Alaskan, Canadian, Eskimo, and Aleut), Filipino, Hawaiian (includes part-Hawaiian), other Asian or Pacific Islander, and all other races.)

The white category includes in addition to persons reported as white, those reported as Mexican, Puerto Rican, Cuban, and all other Caucasians. If the race is given as a mixture of white and any other race, the entry is coded to the appropriate other race. If a mixture of races other than white is given (except Hawaiian), the entry is coded to the first race listed.

For the period 1970-1980, the number of death certificates for which the race was not stated was approximately 0.2% of the total deaths. For death certificates with race entry not stated, NCHS assigns racial designations as follows: If the preceding record was coded white, the code assignment is white; if the code is other than white, the assignment is black.

None of the tables in this report show data for the extended classification of race. For the suicide number and rate tables, the race categories are: 1) white, and 2) black and all other races.

3. Sex

Sex is coded on the mortality file as either male or female.

4. Place of Residence

The place of residence at the time of death is coded on the mortality file for each State within the United States and the District of Columbia, Puerto Rico, Virgin Islands, Guam, Canada, Cuba, and Mexico. The remainder of deaths are coded into one foreign residence category. The county or county equivalents of residence are coded for each State within the United States.

5. Place of Occurrence

The place of occurrence of death is coded as the State where the death occurred for each State within the United States and the District of Columbia. The county or county equivalent for place of death occurrence is also coded on the file.

6. Date of Death

The month and day of death are coded on the mortality file.

7. Cause of Death

The cause of death for the years 1970-1978 is coded on the mortality file in accordance with the International Classification of Diseases, Adapted for use in the United States-Eighth Revision (ICDA-8). The International Classification of Diseases-Ninth Revision (ICD-9) is used for coding cause of death for the years 1979-1980. (See Appendix A.)

For this report, the methods of suicide are categorized as 1) firearms and explosives (ICDA code E955); 2) hanging, strangulation, and suffocation (E953); 3) poisoning by solid or liquid substances (E950); 4) poisoning by gases (E951 and E952); and 5) other means (E954, E956, E957, E958, and E959).

APPENDIX D:

COMPARISON TABLE OF SUICIDE RATES

The following table compares revised national suicide rates for persons 15-24 years of age with rates from Table 1 of this report. The revised rates were recently produced by the National Center for Health Statistics on the basis of updated population estimates for the years 1970-1980 based on age, race, and sex information from the 1980 U.S. Census.

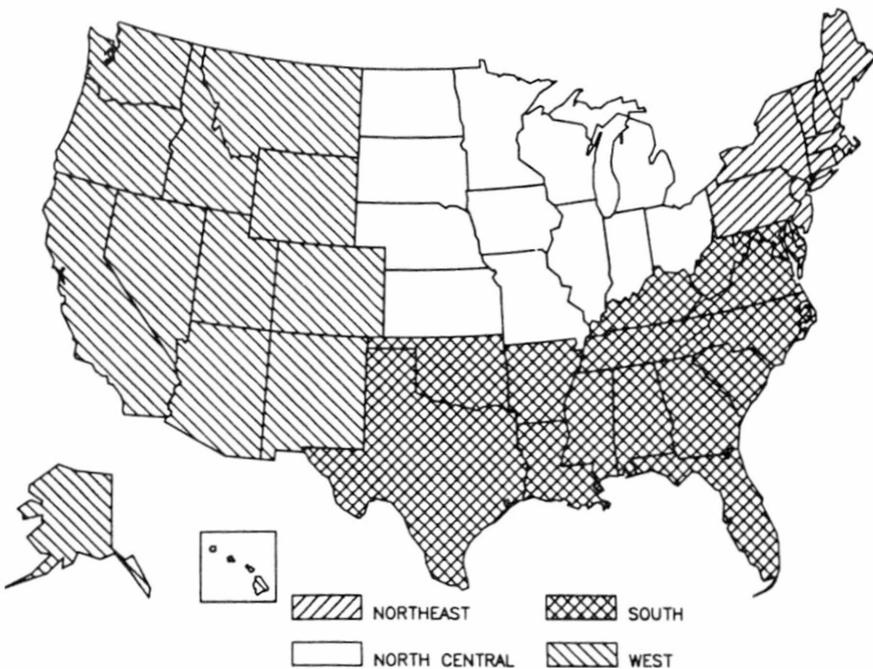
Suicide Rates* for All Persons 15-24 Years of Age, U.S. 1970-1980

Year	Rate in this Report	Revised Rate
1970	8.8	8.8
1971	9.5	9.3
1972	10.3	10.1
1973	10.7	10.5
1974	10.9	10.8
1975	11.8	11.7
1976	11.7	11.5
1977	13.6	13.3
1978	12.4	12.1
1979	12.4	12.4
1980	12.3	12.3

*Rates per 100,000 population

APPENDIX E:

GEOGRAPHIC REGIONS OF THE UNITED STATES



**APPENDIX F:
NUMBER OF SMSA AND NON-SMSA COUNTIES
FOR EACH STATE AND THE UNITED STATES**

State Name	# SMSA Counties	# Non-SMSA Counties
Alabama	12	55
Alaska	0	29
Arizona	2	12
Arkansas	7	70
California	24	34
Colorado	7	56
Connecticut	7	1
Delaware	1	2
D.C.	1	0
Florida	12	55
Georgia	13	146
Hawaii	1	3
Idaho	1	43
Illinois	19	83
Indiana	25	67
Iowa	7	92
Kansas	5	100
Kentucky	8	112
Louisiana	10	54
Maine	2	14
Maryland	9	15
Massachusetts	10	4
Michigan	17	66
Minnesota	8	79
Mississippi	3	79
Missouri	12	103
Montana	2	55
Nebraska	4	89
Nevada	2	15
New Hampshire	3	7
New Jersey	14	7
New Mexico	1	31
New York	26	36
North Carolina	13	87
North Dakota	1	52
Ohio	31	57
Oklahoma	9	68
Oregon	6	30
Pennsylvania	25	42
Rhode Island	5	0
South Carolina	7	39
South Dakota	1	66
Tennessee	8	87
Texas	40	214
Utah	4	25
Vermont	0	14
Virginia	29	107
Washington	5	34
West Virginia	7	48
Wisconsin	13	59
Wyoming	0	23
Total U.S.	479	2,666

NOTE: Based on the 1970 U.S. Bureau of Census SMSA County definition.

Figure 1. Suicide Rates for All Persons 15–24 Years of Age by Age Group, United States, 1970–1980

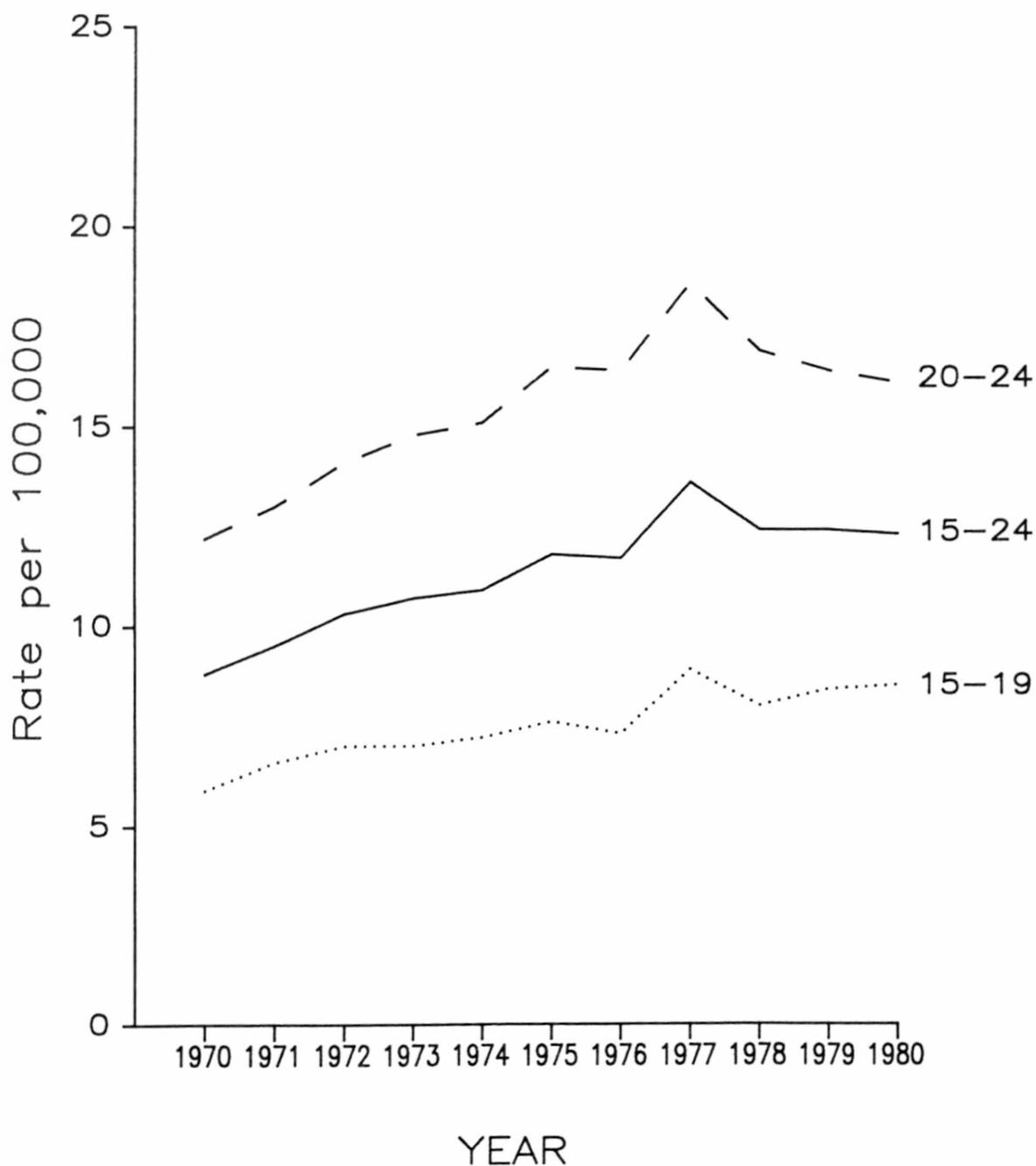


Figure 2. Suicide Rates for All Persons 15–24 Years of Age by Race and Sex, United States, 1970–1980

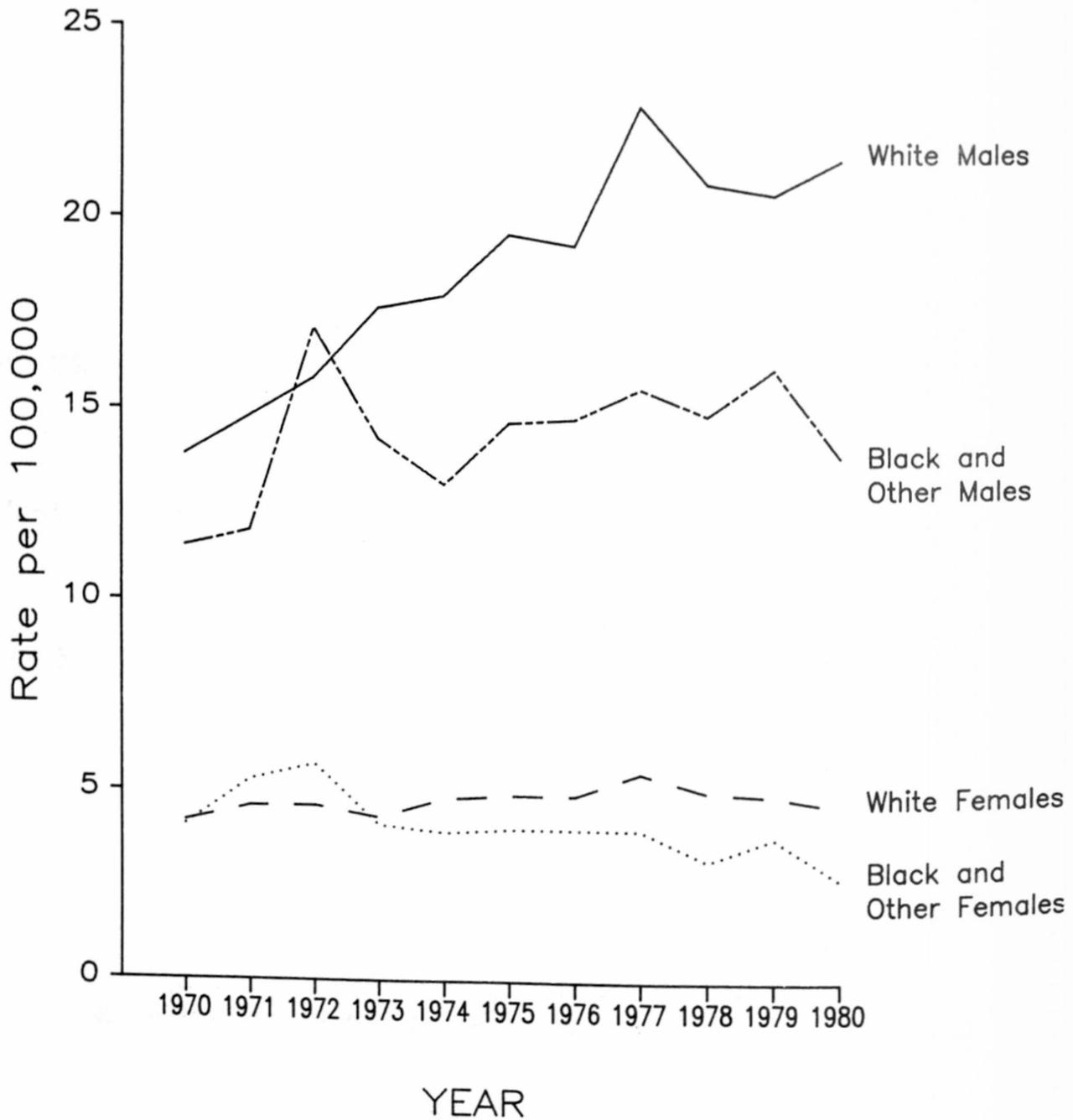


Figure 3. Suicide Rates for All Persons 15–19 Years of Age by Race and Sex, United States, 1970–1980



Figure 4. Suicide Rates for All Persons 20–24 Years of Age by Race and Sex, United States, 1970–1980

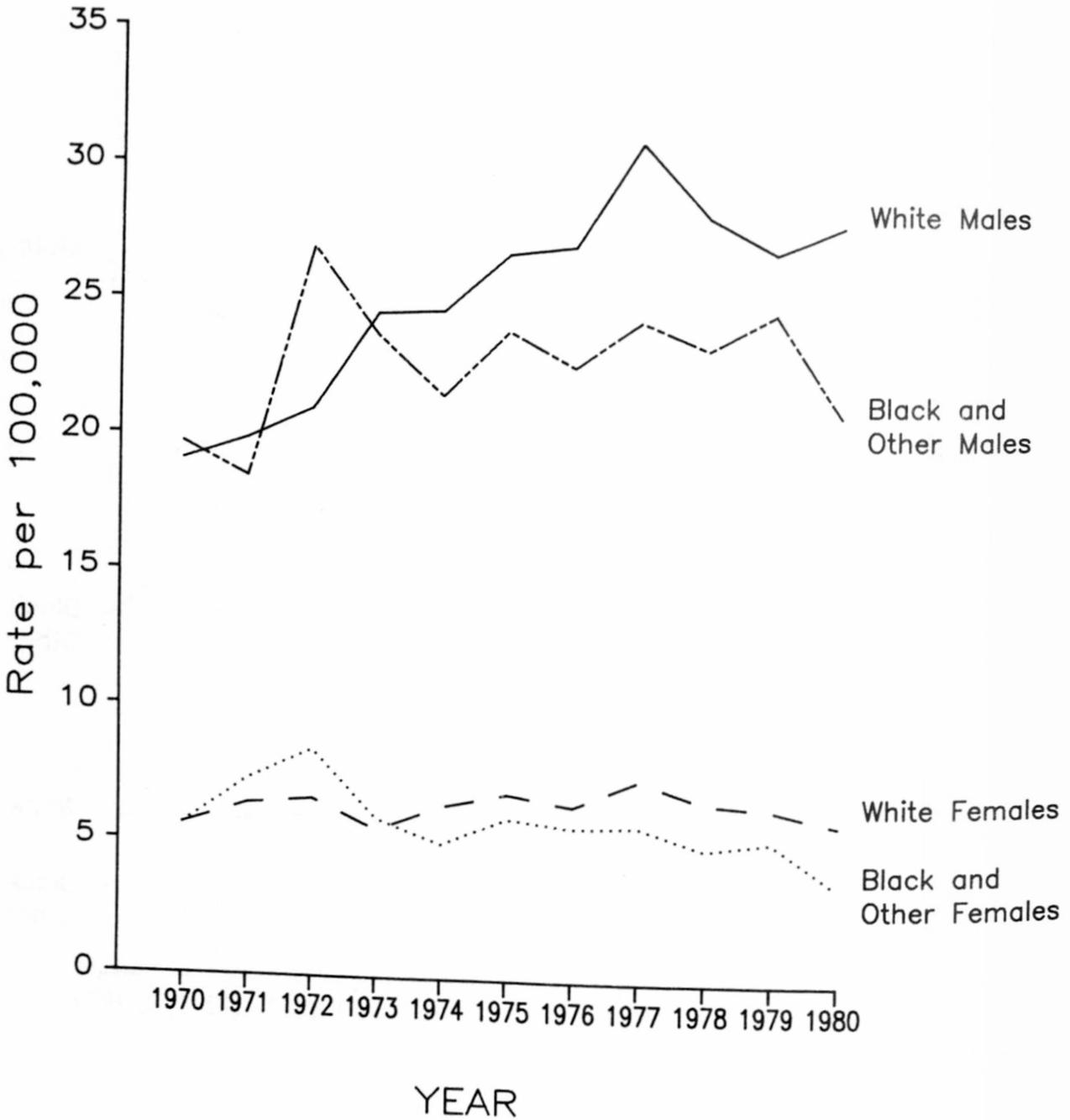


Figure 5. Suicide Rates for All Persons 15–24 Years of Age by Geographic Region, United States, 1970–1980

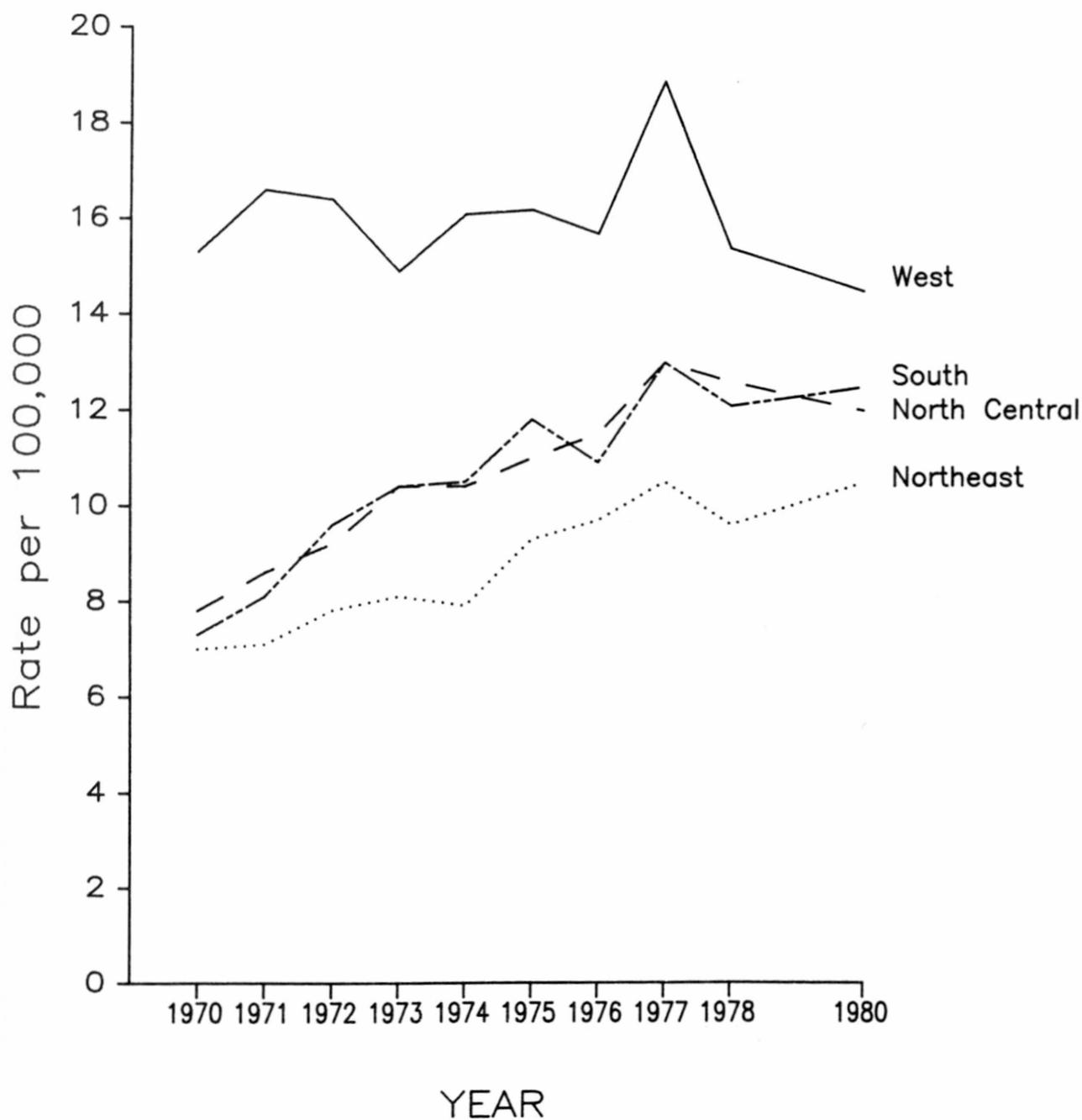


Figure 6. Suicide Rates for All Persons 15-19 Years of Age by Geographic Region, United States, 1970-1980

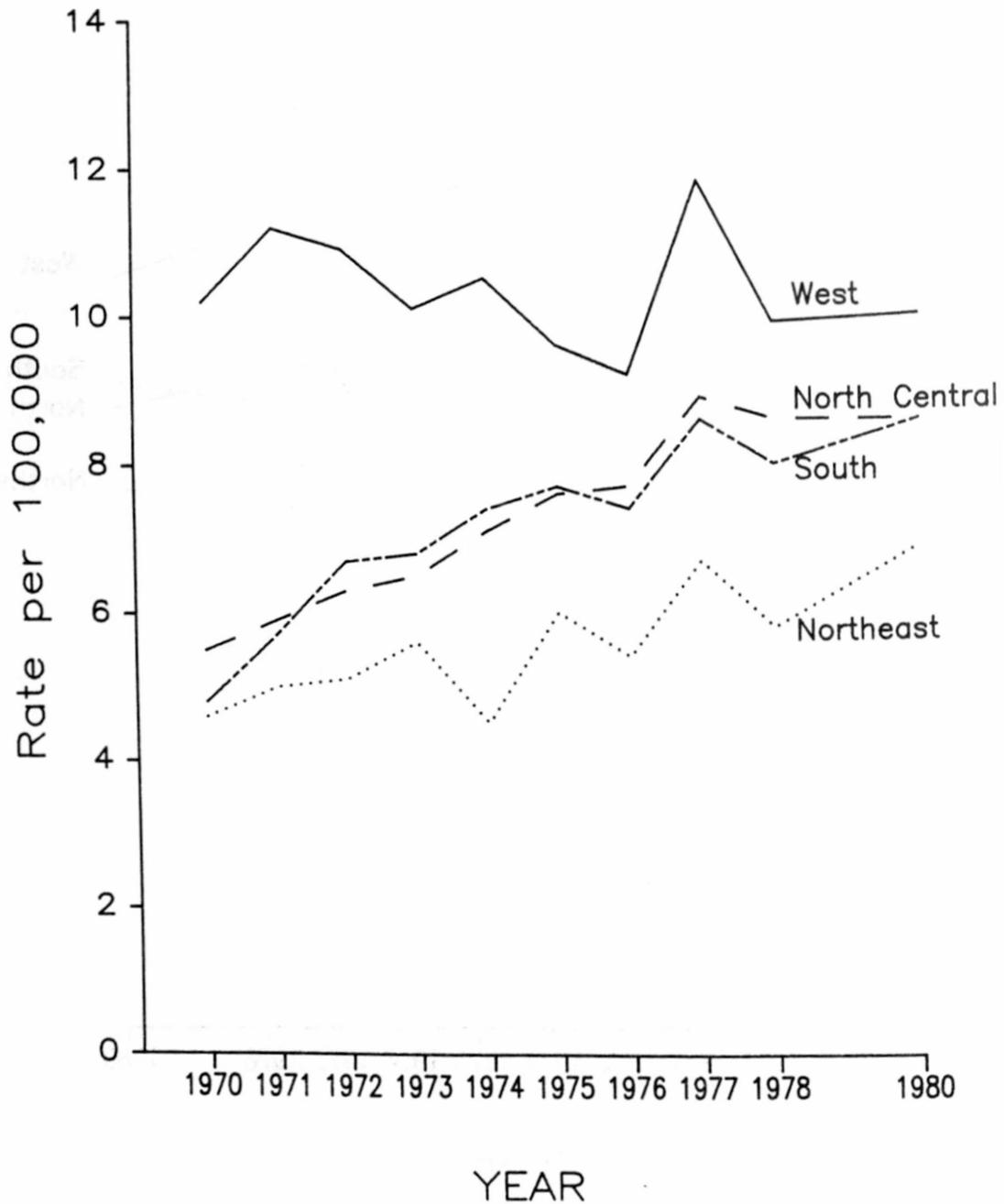


Figure 7. Suicide Rates for All Persons
20–24 Years of Age by Geographic Region,
United States, 1970–1980

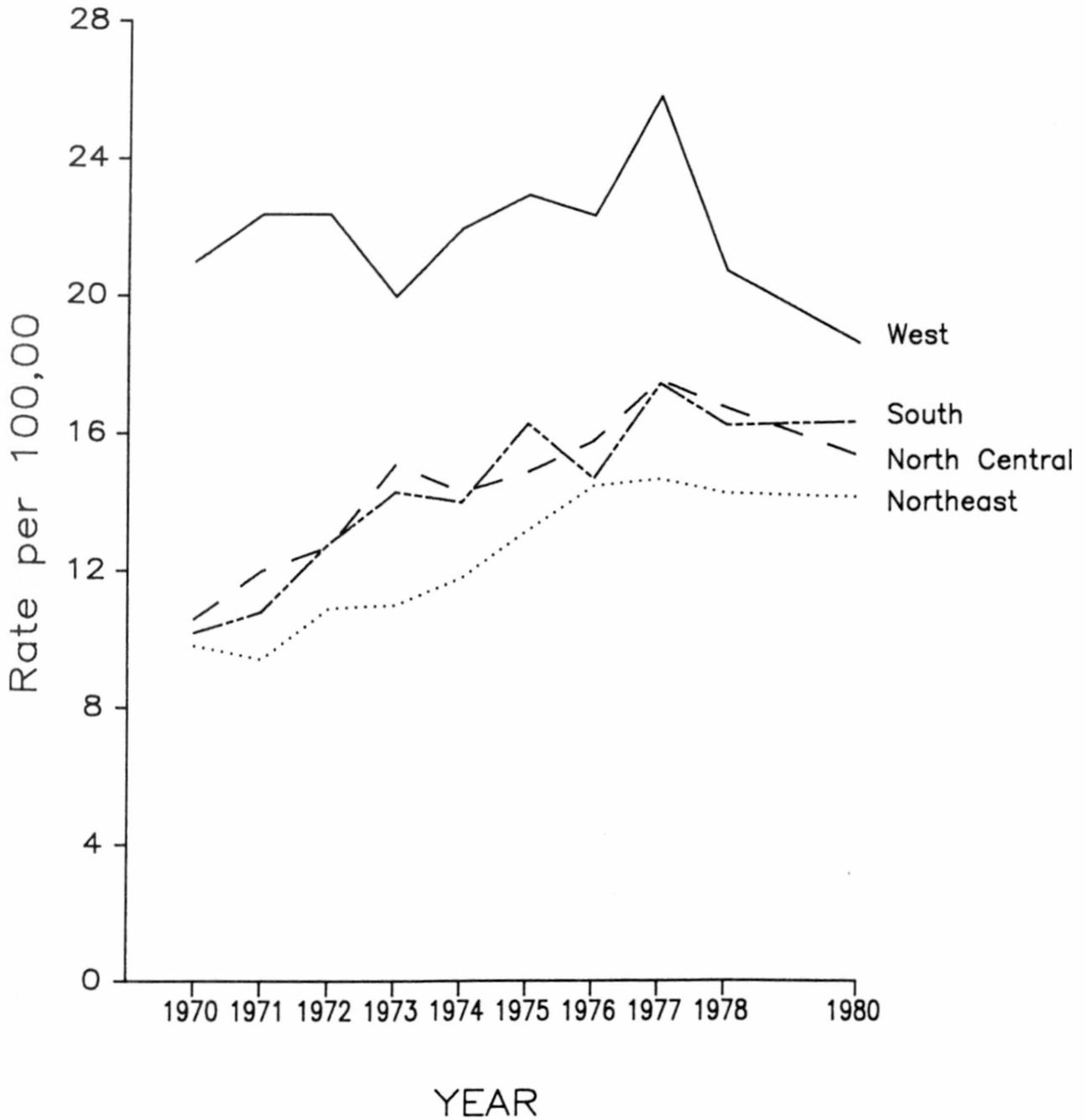
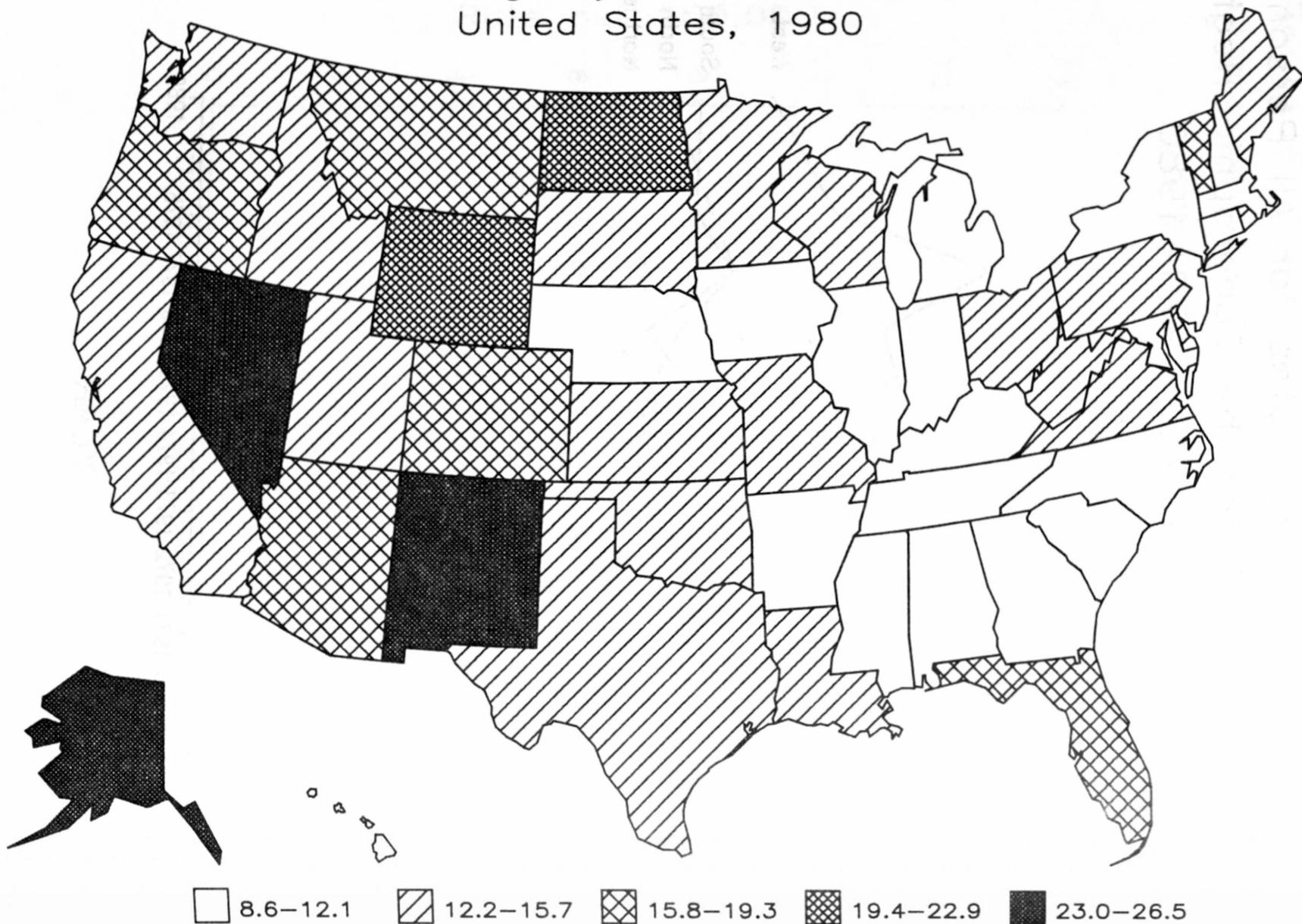


Figure 8: Suicide Rates* for All Persons 15–24 Years of Age by State of Residence, United States, 1980



* Rates per 100,000 Population

Figure 9. Suicide Rates for All Persons 15–24 Years of Age by SMSA Status, United States, 1970–1978

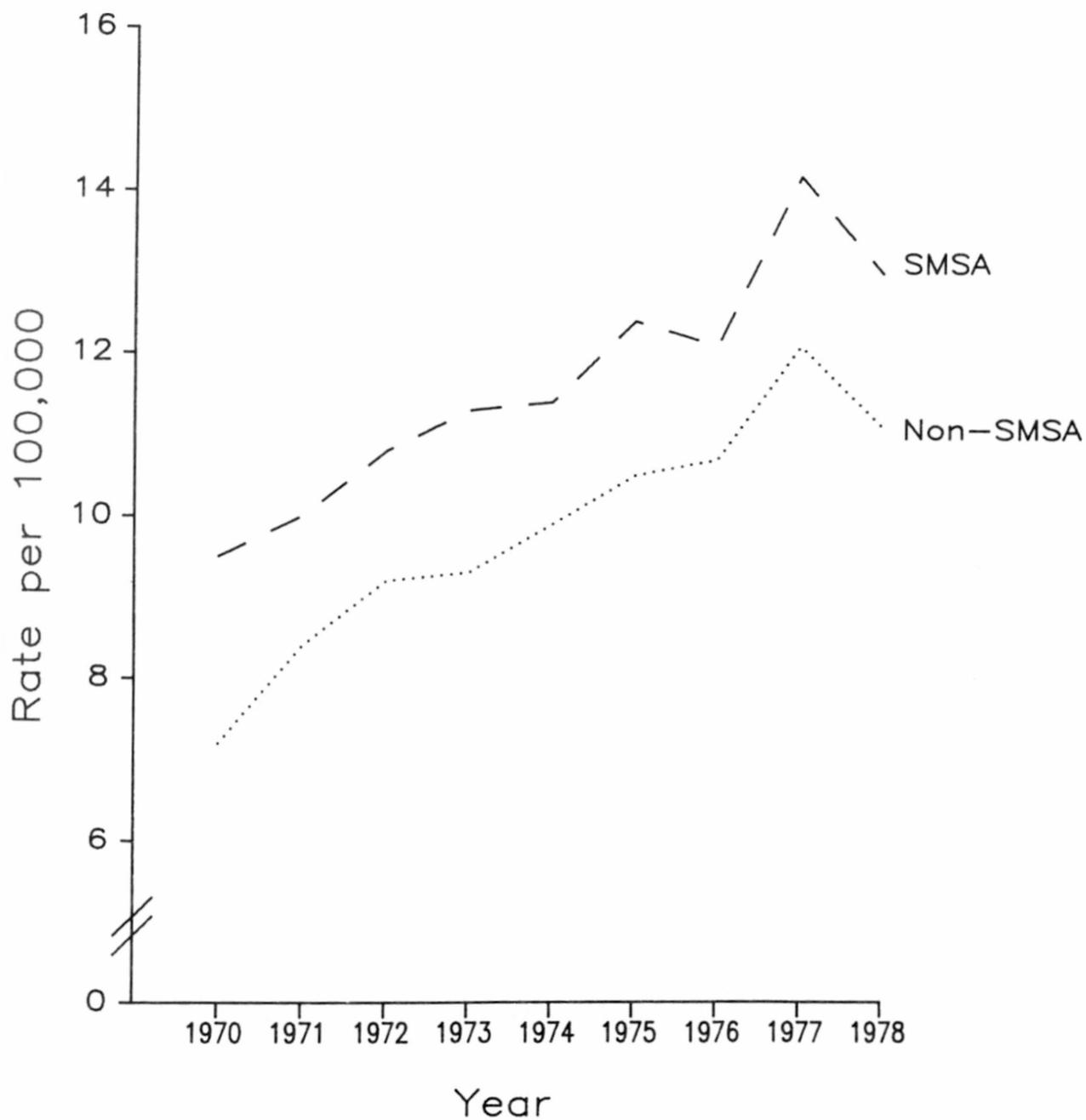


Figure 10. Suicide Rates for All Persons 15–19 Years of Age by SMSA Status, United States, 1970–1978

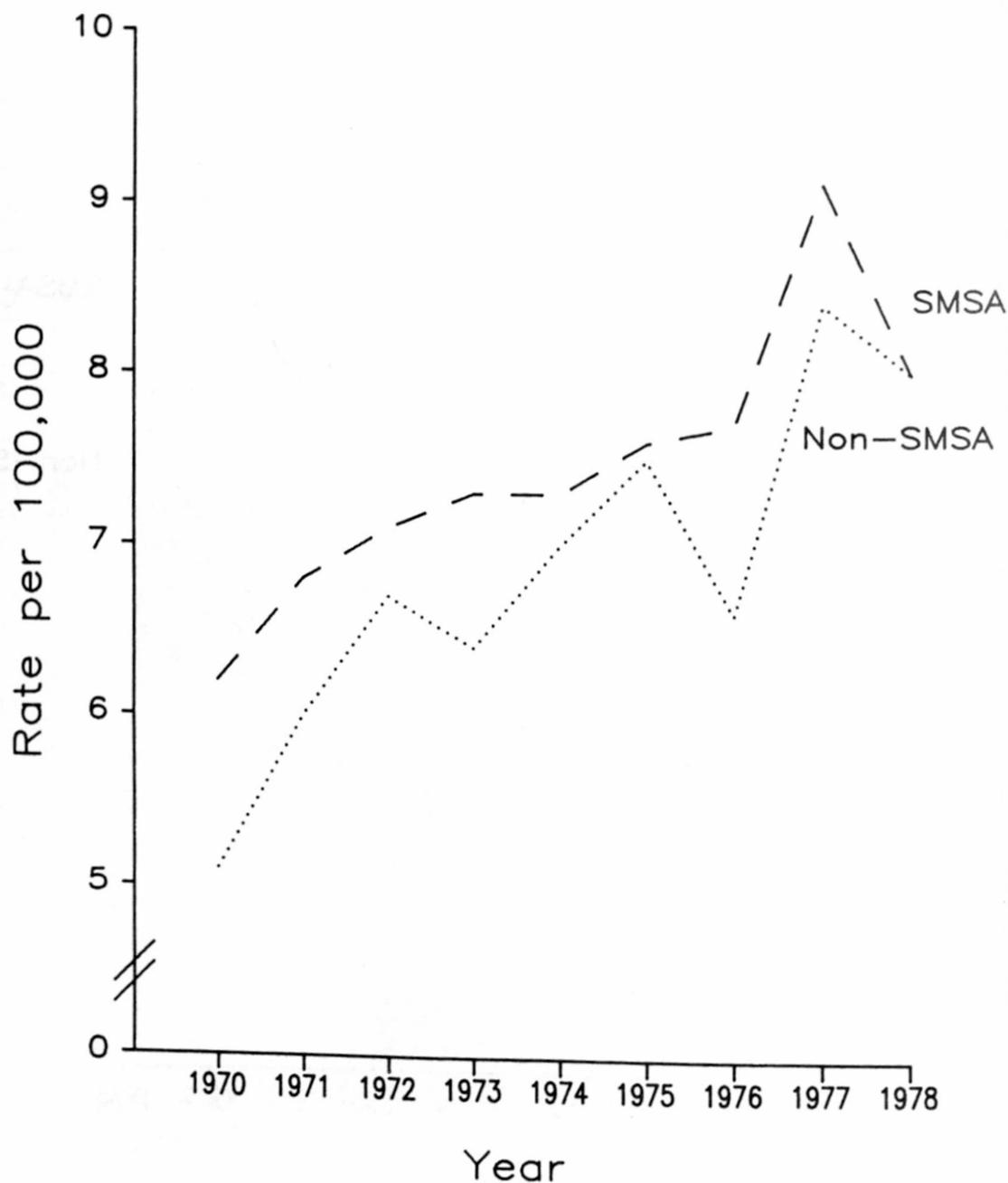


Figure 11. Suicide Rates for All Persons 20–24 Years of Age by SMSA Status, United States, 1970–1978

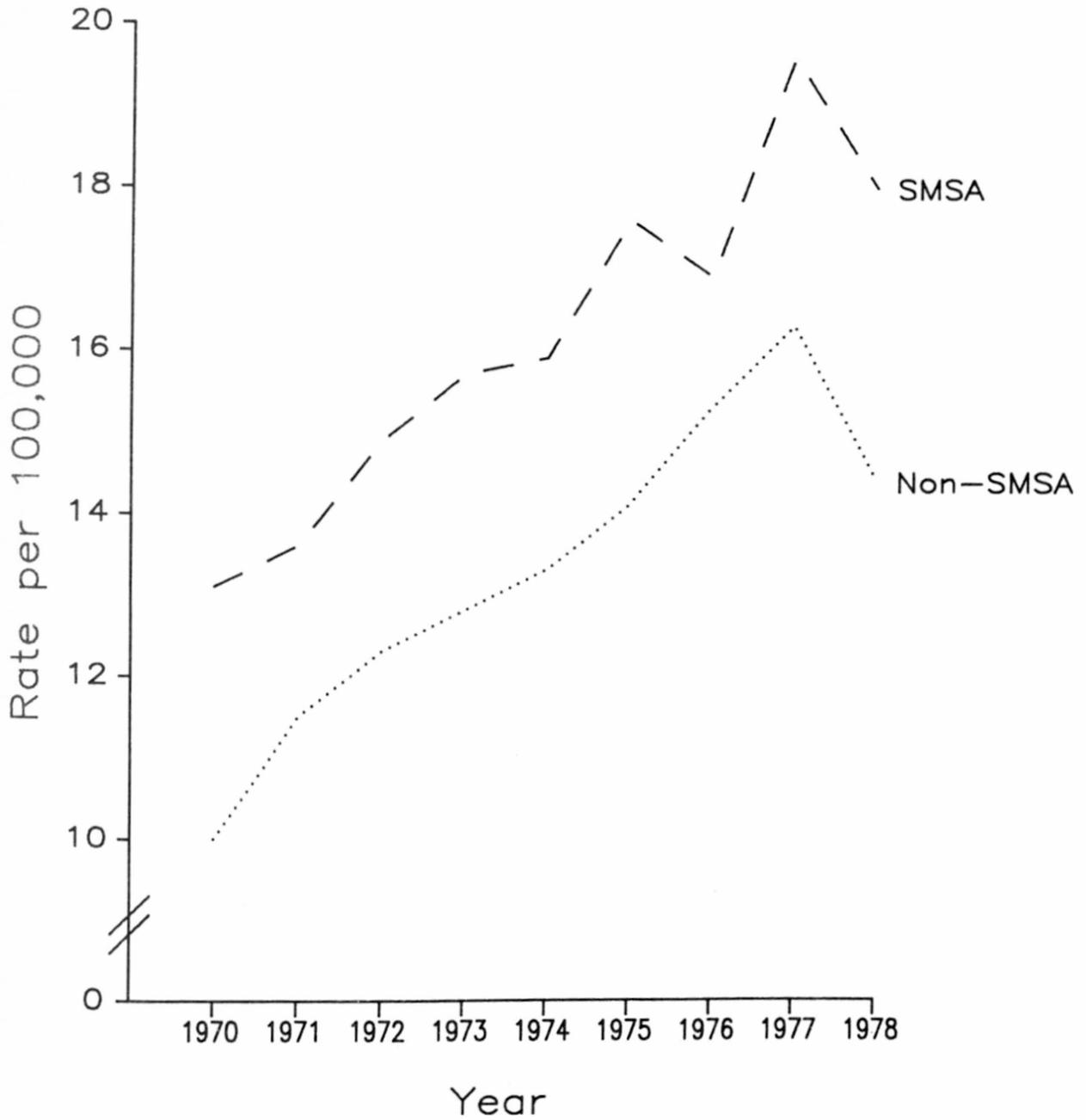


Figure 13. Percent of Suicides for Males 15–19 Years of Age by Method of Suicide, United States, 1970–1980

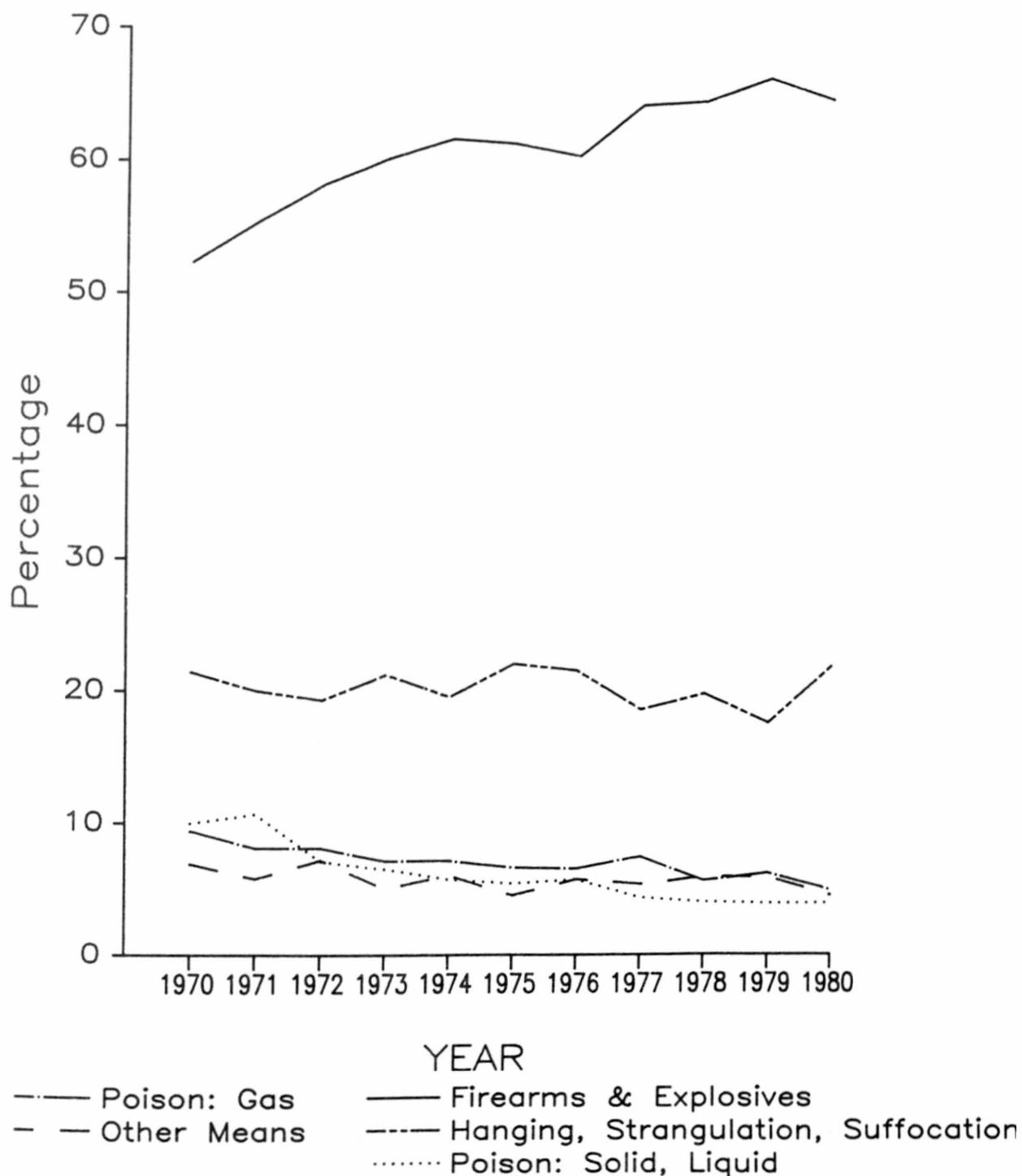


Figure 14. Percent of Suicides for Males 20-24 Years of Age by Method of Suicide, United States, 1970-1980

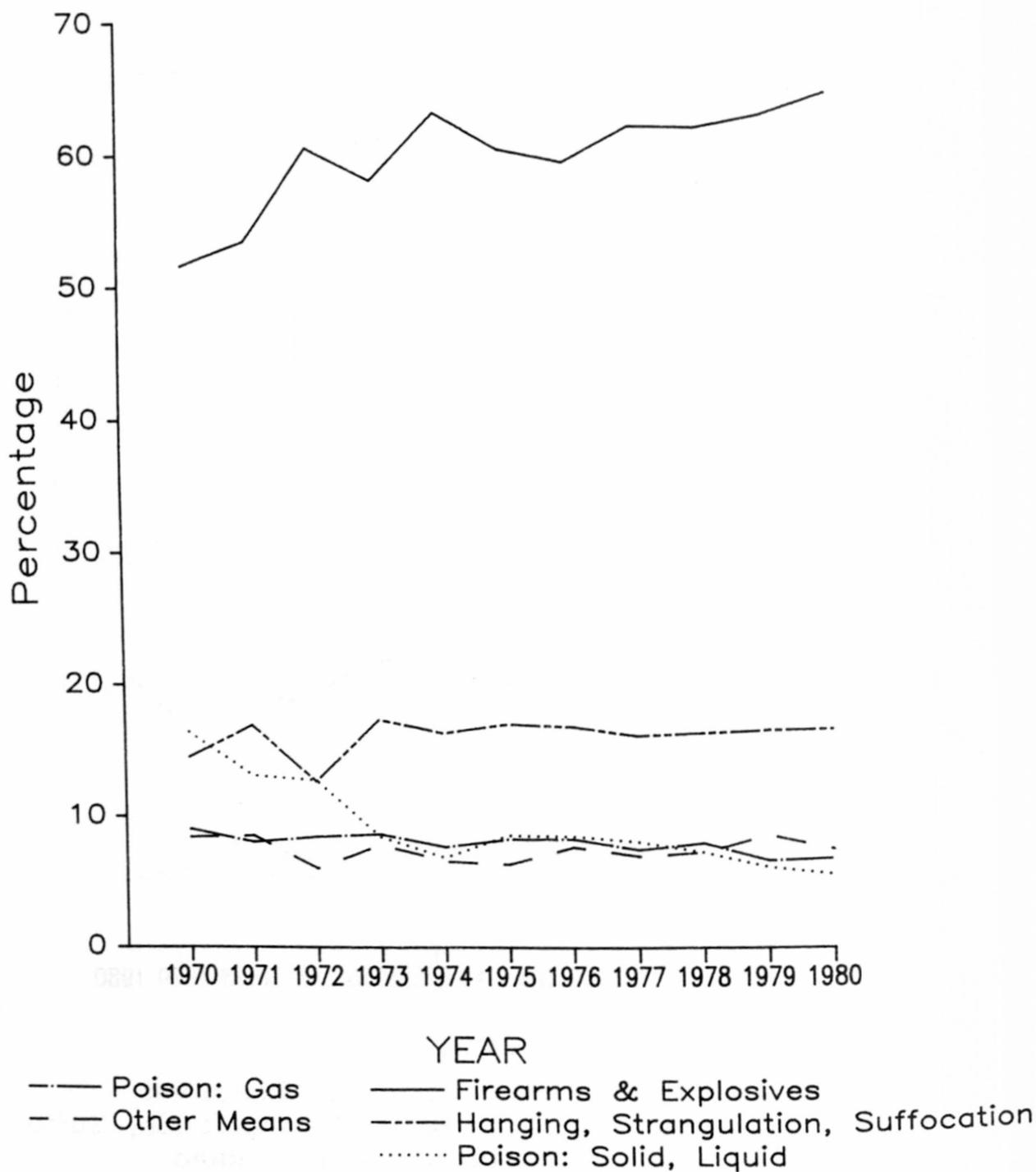


Figure 15. Percent of Suicides for Females 15–24 Years of Age by Method of Suicide, United States, 1970–1980



Figure 16. Percent of Suicides for Females 15-19 Years of Age by Method of Suicide, United States, 1970-1980

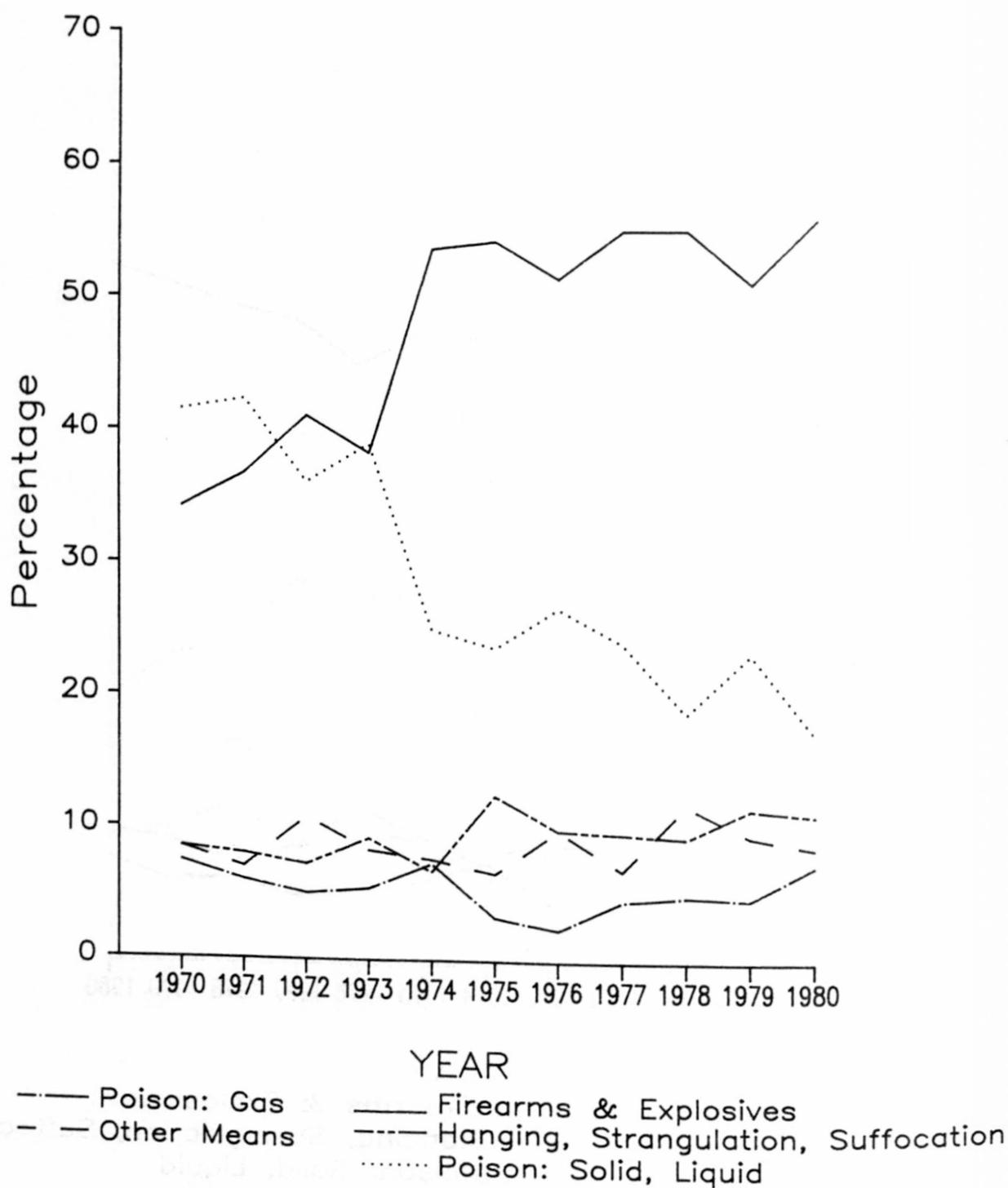


Figure 17. Percent of Suicides for Females 20–24 Years of Age by Method of Suicide, United States, 1970–1980

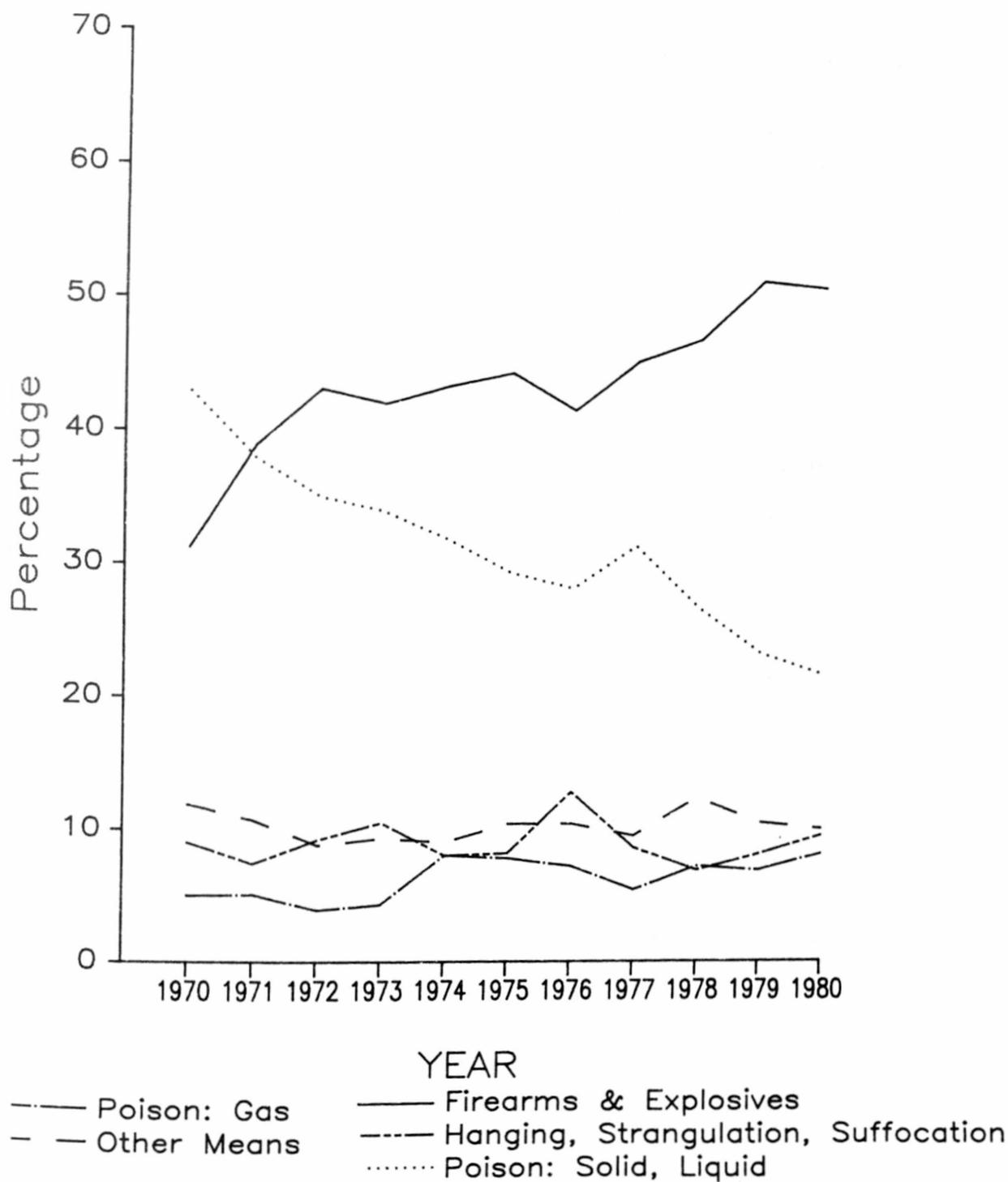


Table 1
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Race, Sex, and Year
United States, 1970-1980

*Rates per 100,000 population

Sources: National Center for Health Statistics Annual Mortality Data Files; U.S. Bureau of Census Population Estimates

Year	Race and Sex	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1970	White	1010	6.1	1755	12.2	2765	9.0
	Male	778	9.3	1338	19.1	2116	13.8
	Female	232	2.9	417	5.6	649	4.2
	Black/other	113	4.2	250	12.1	363	7.7
	Male	73	5.5	189	19.7	262	11.4
	Female	40	3.0	61	5.6	101	4.1
	TOTAL	1123	5.9	2005	12.2	3128	8.8
	Male	851	8.8	1527	19.2	2378	13.5
Female	272	2.9	478	5.6	750	4.2	
1971	White	1135	6.8	1926	13.0	3061	9.7
	Male	885	10.4	1441	19.9	2326	14.8
	Female	250	3.0	485	6.4	735	4.6
	Black/other	144	5.2	274	12.6	418	8.4
	Male	94	6.8	189	18.5	283	11.8
	Female	50	3.6	85	7.3	135	5.3
	TOTAL	1279	6.6	2200	13.0	3479	9.5
	Male	979	9.9	1630	19.8	2609	14.4
Female	300	3.1	570	6.5	870	4.7	
1972	White	1196	7.0	2082	13.7	3278	10.2
	Male	968	11.2	1572	21.0	2540	15.8
	Female	228	2.7	510	6.6	738	4.6
	Black/other	188	6.4	392	17.1	580	11.2
	Male	138	9.7	290	26.9	428	17.1
	Female	50	3.5	102	8.4	152	5.7
	TOTAL	1384	7.0	2474	14.1	3858	10.3
	Male	1106	11.0	1862	21.8	2968	15.9
Female	278	2.8	612	6.9	890	4.7	
1973	White	1285	7.4	2326	14.9	3611	11.0
	Male	1011	11.5	1894	24.5	2905	17.6
	Female	274	3.2	432	5.5	706	4.3
	Black/other	142	4.8	345	14.3	487	9.0
	Male	102	6.9	270	23.7	372	14.2
	Female	40	2.7	75	5.9	115	4.1
	TOTAL	1427	7.0	2671	14.8	4098	10.7
	Male	1113	10.9	2164	24.4	3277	17.2
Female	314	3.1	507	5.5	821	4.3	
1974	White	1349	7.7	2472	15.4	3821	11.4
	Male	1064	11.9	1961	24.6	3025	17.9
	Female	285	3.3	511	6.4	796	4.8
	Black/other	140	4.6	324	12.9	464	8.3
	Male	96	6.3	257	21.5	353	13.0
	Female	44	2.9	67	5.0	111	3.9
	TOTAL	1489	7.2	2796	15.1	4285	10.9
	Male	1160	11.1	2218	24.2	3378	17.2
Female	329	3.2	578	6.2	907	4.6	

Table 1 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Race, Sex, and Year
United States, 1970-1980

Year	Race and Sex	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1975	White	1449	8.1	2761	16.8	4210	12.3
	Male	1178	13.0	2200	26.7	3378	19.5
	Female	271	3.1	561	6.9	832	4.9
	Black/other	145	4.6	381	14.5	526	9.1
	Male	111	7.1	298	23.9	409	14.4
	Female	34	2.2	83	6.0	117	4.0
	TOTAL	1594	7.6	3142	16.5	4736	11.8
	Male	1289	12.1	2498	26.3	3787	18.8
Female	305	2.9	644	6.7	949	4.8	
1976	White	1381	7.7	2812	16.8	4193	12.1
	Male	1086	11.9	2268	27.0	3354	19.2
	Female	295	3.3	544	6.5	839	4.9
	Black/other	175	5.4	379	13.8	554	9.3
	Male	135	8.4	297	22.6	432	14.7
	Female	40	2.5	82	5.7	122	4.0
	TOTAL	1556	7.3	3191	16.4	4747	11.7
	Male	1221	11.4	2565	26.4	3786	18.5
Female	335	3.2	626	6.4	961	4.8	
1977	White	1700	9.5	3275	19.2	4975	14.3
	Male	1389	15.3	2638	30.8	4027	22.8
	Female	311	3.5	637	7.5	948	5.5
	Black/other	171	5.2	419	14.6	590	9.6
	Male	132	8.1	333	24.3	465	15.5
	Female	39	2.4	86	5.8	125	4.0
	TOTAL	1871	8.9	3694	18.6	5565	13.6
	Male	1521	14.2	2971	29.9	4492	21.8
Female	350	3.4	723	7.3	1073	5.3	
1978	White	1537	8.7	3021	17.5	4558	13.0
	Male	1244	13.8	2445	28.1	3689	20.8
	Female	293	3.4	576	6.7	869	5.0
	Black/other	149	4.5	408	13.8	557	8.9
	Male	123	7.5	331	23.3	454	14.8
	Female	26	1.6	77	5.0	103	3.2
	TOTAL	1686	8.0	3429	16.9	5115	12.4
	Male	1367	12.8	2776	27.4	4143	19.9
Female	319	3.1	653	6.4	972	4.7	
1979	White	1602	8.9	3000	16.7	4602	12.8
	Male	1305	14.3	2422	26.8	3727	20.5
	Female	297	3.4	578	6.5	875	4.9
	Black/other	186	5.4	458	14.6	644	9.8
	Male	147	8.5	371	24.6	518	16.0
	Female	39	2.3	87	5.3	126	3.8
	TOTAL	1788	8.4	3458	16.4	5246	12.4
	Male	1452	13.4	2793	26.5	4245	19.8
Female	336	3.2	665	6.3	1001	4.8	

Table 1 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Race, Sex, and Year
United States, 1970-1980

Year	Race and Sex	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1980	White	1635	9.2	3057	16.9	4692	13.1
	Male	1352	15.0	2529	27.8	3881	21.4
	Female	283	3.3	528	5.9	811	4.6
	Black/other	162	4.7	385	11.9	547	8.1
	Male	131	7.5	324	20.9	455	13.7
	Female	31	1.8	61	3.6	92	2.7
	TOTAL	1797	8.5	3442	16.1	5239	12.3
	Male	1483	13.8	2853	26.8	4336	20.2
	Female	314	3.0	589	5.5	903	4.3

Table 2
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Geographic Region, State, and Year
United States, 1970-80

Year	Geographic Region	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1970	Northeast	197	4.6	362	9.8	559	7.0
	North Central	297	5.5	467	10.6	764	7.8
	South	294	4.8	539	10.2	833	7.3
	West	335	10.2	637	21.0	972	15.3
	TOTAL	1,123	5.9	2,005	12.2	3,128	8.8
1970	Northeast						
	Connecticut	17	6.4	20	8.7	37	7.5
	Maine	7	7.4	7	9.2	14	8.2
	Massachusetts	21	4.1	51	11.0	72	7.3
	New Hampshire	2	3.0	6	10.2	8	6.3
	New Jersey	22	3.6	41	8.0	63	5.6
	New York	62	4.0	117	8.5	179	6.1
	Pennsylvania	60	5.6	109	12.8	169	8.7
	Rhode Island	2	2.3	6	6.8	8	4.6
	Vermont	4	9.0	5	13.8	9	11.1
	Total	197	4.6	362	9.8	559	7.0
1970	North Central						
	Illinois	49	4.8	84	9.9	133	7.2
	Indiana	28	5.6	48	11.5	76	8.3
	Iowa	11	4.0	16	7.8	27	5.6
	Kansas	11	5.1	23	12.2	34	8.4
	Michigan	59	6.7	84	11.9	143	9.1
	Minnesota	17	4.5	31	10.6	48	7.2
	Missouri	36	8.4	28	7.9	64	8.1
	Nebraska	1	0.7	10	8.7	11	4.2
	North Dakota	5	7.7	2	4.1	7	6.1
	Ohio	52	5.1	104	12.5	156	8.4
	South Dakota	5	7.1	3	6.1	8	6.7
	Wisconsin	23	5.3	34	10.1	57	7.4
	Total	297	5.5	467	10.6	764	7.8
1970	South						
	Alabama	10	2.9	18	6.5	28	4.5
	Arkansas	14	7.6	11	7.7	25	7.6
	Delaware	2	3.9	9	20.5	11	11.5
	Dist. of Columbia	1	1.5	8	10.1	9	6.2
	Florida	45	7.7	59	11.8	104	9.6
	Georgia	21	4.7	42	10.0	63	7.3
	Kentucky	6	1.9	22	8.3	28	4.8
	Louisiana	14	3.7	28	9.3	42	6.2
	Maryland	13	3.6	44	13.5	57	8.3
	Mississippi	9	3.8	11	6.3	20	4.9
	North Carolina	25	4.8	31	6.7	56	5.7
	Oklahoma	10	4.1	17	8.2	27	6.0
	South Carolina	9	3.2	22	9.2	31	5.9
	Tennessee	17	4.5	30	9.3	47	6.7
	Texas	63	5.7	124	12.9	187	9.1
	Virginia	29	6.5	57	12.9	86	9.7
	West Virginia	6	3.5	6	4.7	12	4.0
	Total	294	4.8	539	10.2	833	7.3

*Rates per 100,000 population

Table 2 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Geographic Region, State, and Year
United States, 1970-80

Year	Geographic Region	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1970	West						
	Alaska	2	7.3	9	24.3	11	17.1
	Arizona	14	8.0	33	22.2	47	14.5
	California	222	12.2	410	23.4	632	17.7
	Colorado	19	8.6	34	16.5	53	12.4
	Hawaii	2	2.8	6	7.3	8	5.2
	Idaho	7	9.4	12	22.3	19	14.8
	Montana	6	8.5	7	13.5	13	10.6
	Nevada	2	4.9	8	20.3	10	12.5
	New Mexico	11	10.4	22	26.4	33	17.4
	Oregon	11	5.4	24	14.7	35	9.5
	Utah	15	12.8	18	18.3	33	15.3
	Washington	18	5.4	48	16.2	66	10.5
	Wyoming	6	18.0	6	24.1	12	20.6
	Total	335	10.2	637	21.0	972	15.3
1971	Northeast	220	5.0	358	9.4	578	7.1
	North Central	325	5.9	542	12.0	867	8.6
	South	357	5.7	595	10.8	952	8.1
	West	377	11.2	705	22.4	1,082	16.6
	TOTAL	1,279	6.6	2,200	13.0	3,479	9.5
1971	Northeast						
	Connecticut	10	3.7	29	12.3	39	7.7
	Maine	8	8.3	14	17.4	22	12.4
	Massachusetts	24	4.6	38	7.9	62	6.2
	New Hampshire	8	11.4	12	19.4	20	15.1
	New Jersey	33	5.3	39	7.5	72	6.3
	New York	75	4.7	118	8.4	193	6.4
	Pennsylvania	49	4.5	95	10.8	144	7.3
	Rhode Island	6	6.8	8	8.9	14	7.9
	Vermont	7	15.3	5	13.3	12	14.4
	Total	220	5.0	358	9.4	578	7.1
1971	North Central						
	Illinois	53	5.1	85	9.8	138	7.3
	Indiana	28	5.5	50	11.7	78	8.3
	Iowa	15	5.4	23	10.9	38	7.8
	Kansas	8	3.6	15	7.7	23	5.6
	Michigan	51	5.7	119	16.4	170	10.5
	Minnesota	24	6.3	47	15.5	71	10.4
	Missouri	26	5.9	37	10.2	63	7.9
	Nebraska	10	6.9	12	9.9	22	8.2
	North Dakota	5	7.6	6	11.5	11	9.3
	Ohio	74	7.2	96	11.2	170	9.0
	South Dakota	8	11.3	7	13.5	15	12.2
	Wisconsin	23	5.2	45	12.8	68	8.6
	Total	325	5.9	542	12.0	867	8.6

Table 2 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Geographic Region, State, and Year
United States, 1970-80

Year	Geographic Region	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1971	South						
	Alabama	15	4.3	27	9.5	42	6.6
	Arkansas	10	5.3	12	7.9	22	6.5
	Delaware	3	5.6	4	8.7	7	7.0
	Dist. of Columbia	3	4.6	7	8.8	10	6.9
	Florida	37	6.0	76	14.1	113	9.8
	Georgia	23	5.1	50	11.7	73	8.3
	Kentucky	23	7.1	33	12.0	56	9.3
	Louisiana	15	3.9	28	9.0	43	6.2
	Maryland	27	7.3	36	10.7	63	9.0
	Mississippi	15	6.3	15	8.1	30	7.1
	North Carolina	23	4.4	47	9.8	70	6.9
	Oklahoma	15	6.1	22	10.3	37	8.0
	South Carolina	9	3.2	19	7.7	28	5.2
	Tennessee	19	4.9	34	10.2	53	7.4
	Texas	82	7.3	124	12.3	206	9.7
	Virginia	32	7.1	47	10.4	79	8.7
	West Virginia	6	3.5	14	10.4	20	6.5
	Total	357	5.7	595	10.8	952	8.1
1971	West						
	Alaska	4	13.9	8	21.1	12	18.0
	Arizona	29	15.7	43	26.5	72	20.7
	California	222	11.9	442	24.6	664	18.2
	Colorado	29	12.6	40	18.2	69	15.3
	Hawaii	8	10.7	11	12.8	19	11.8
	Idaho	15	19.5	16	27.7	31	23.0
	Montana	8	11.1	14	25.5	22	17.3
	Nevada	4	9.3	12	28.6	16	18.8
	New Mexico	13	11.8	22	24.7	35	17.6
	Oregon	10	4.8	30	17.5	40	10.5
	Utah	9	7.5	17	16.3	26	11.6
	Washington	24	7.2	43	14.4	67	10.6
	Wyoming	2	5.8	7	26.1	9	14.7
	Total	377	11.2	705	22.4	1,082	16.6
1972	Northeast	230	5.1	422	10.9	652	7.8
	North Central	352	6.3	592	12.7	944	9.2
	South	426	6.7	732	12.8	1,158	9.6
	West	376	10.9	728	22.4	1,104	16.4
	TOTAL	1,384	7.0	2,474	14.1	3,858	10.3
1972	Northeast						
	Connecticut	6	2.2	20	8.3	26	5.0
	Maine	14	14.1	4	4.7	18	9.8
	Massachusetts	20	3.7	62	12.6	82	8.0
	New Hampshire	8	11.0	4	6.2	12	8.7
	New Jersey	14	2.2	78	14.7	92	7.8
	New York	74	4.6	120	8.4	194	6.4
	Pennsylvania	82	7.4	122	13.5	204	10.2
	Rhode Island	8	8.9	6	6.6	14	7.8
	Vermont	4	8.6	6	15.4	10	11.7
	Total	230	5.1	422	10.9	652	7.8

Table 2 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Geographic Region, State, and Year
United States, 1970-80

Year	Geographic Region	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1972	North Central						
	Illinois	64	6.1	106	12.0	170	8.8
	Indiana	12	2.3	32	7.3	44	4.6
	Iowa	20	7.1	14	6.4	34	6.8
	Kansas	18	8.1	32	16.0	50	11.9
	Michigan	68	7.5	138	18.4	206	12.4
	Minnesota	24	6.2	36	11.5	60	8.5
	Missouri	34	7.6	38	10.2	72	8.8
	Nebraska	8	5.4	8	6.3	16	5.8
	North Dakota	8	12.0	2	3.6	10	8.2
	Ohio	64	6.1	122	14.0	186	9.7
	South Dakota	2	2.8	14	25.6	16	12.6
	Wisconsin	30	6.7	50	13.7	80	9.8
	Total	352	6.3	592	12.7	944	9.2
1972	South						
	Alabama	16	4.5	24	8.1	40	6.2
	Arkansas	12	6.3	8	5.1	20	5.7
	Delaware	0	—	6	12.5	6	5.8
	Dist. of Columbia	4	6.1	10	12.7	14	9.7
	Florida	62	9.6	70	12.2	132	10.8
	Georgia	34	7.3	68	15.5	102	11.3
	Kentucky	22	6.7	22	7.8	44	7.2
	Louisiana	20	5.1	34	10.5	54	7.6
	Maryland	24	6.3	50	14.6	74	10.2
	Mississippi	18	7.4	26	13.4	44	10.1
	North Carolina	24	4.5	56	11.3	80	7.8
	Oklahoma	14	5.6	32	14.5	46	9.8
	South Carolina	18	6.2	38	14.8	56	10.3
	Tennessee	26	6.6	36	10.4	62	8.4
	Texas	76	6.6	178	17.0	254	11.5
	Virginia	52	11.2	66	14.2	118	12.7
	West Virginia	4	2.3	8	5.7	12	3.8
	Total	426	6.7	732	12.8	1,158	9.6
1972	West						
	Alaska	6	19.7	16	41.1	22	31.7
	Arizona	20	10.2	50	28.5	70	18.9
	California	238	12.5	420	22.8	658	17.6
	Colorado	28	11.7	64	27.5	92	19.4
	Hawaii	4	5.2	12	13.5	16	9.6
	Idaho	4	5.1	12	19.5	16	11.4
	Montana	2	2.7	18	30.9	20	15.1
	Nevada	10	21.9	18	40.5	28	31.1
	New Mexico	16	14.0	20	21.1	36	17.3
	Oregon	20	9.4	24	13.4	44	11.2
	Utah	8	6.5	14	12.7	22	9.4
	Washington	14	4.2	48	16.0	62	9.7
	Wyoming	6	17.1	12	41.7	18	28.2
	Total	376	10.9	728	22.4	1,104	16.4

Table 2 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Geographic Region, State, and Year
United States, 1970-80

Year	Geographic Region	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1973	Northeast	255	5.6	437	11.0	692	8.1
	North Central	369	6.5	721	15.1	1,090	10.4
	South	445	6.8	842	14.3	1,287	10.4
	West	358	10.1	671	20.0	1,029	14.9
	TOTAL	1,427	7.0	2,671	14.8	4,098	10.7
1973	Northeast						
	Connecticut	10	3.6	23	9.4	33	6.3
	Maine	10	9.8	16	18.1	26	13.7
	Massachusetts	34	6.2	63	12.5	97	9.2
	New Hampshire	10	13.2	9	13.3	19	13.3
	New Jersey	37	5.6	41	7.5	78	6.5
	New York	67	4.1	149	10.2	216	7.0
	Pennsylvania	78	7.0	116	12.5	194	9.5
	Rhode Island	4	4.4	13	14.1	17	9.3
	Vermont	5	10.5	7	17.3	12	13.6
	Total	255	5.6	437	11.0	692	8.1
1973	North Central						
	Illinois	63	5.9	108	12.0	171	8.7
	Indiana	32	6.1	70	15.5	102	10.5
	Iowa	12	4.2	30	13.2	42	8.2
	Kansas	16	7.2	22	10.7	38	8.9
	Michigan	80	8.6	147	19.0	227	13.4
	Minnesota	33	8.4	61	18.8	94	13.1
	Missouri	29	6.4	53	13.9	82	9.8
	Nebraska	9	6.0	8	6.0	17	6.0
	North Dakota	7	10.3	9	15.3	16	12.6
	Ohio	59	5.6	143	16.0	202	10.3
	South Dakota	4	5.5	4	6.9	8	6.1
	Wisconsin	25	5.5	66	17.4	91	10.9
	Total	369	6.5	721	15.1	1,090	10.4
1973	South						
	Alabama	21	5.9	29	9.5	50	7.5
	Arkansas	10	5.1	14	8.4	24	6.6
	Delaware	7	12.2	13	25.9	20	18.6
	Dist. of Columbia	1	1.5	13	16.5	14	9.7
	Florida	53	7.8	111	18.2	164	12.7
	Georgia	30	6.3	67	15.0	97	10.5
	Kentucky	12	3.6	41	14.1	53	8.5
	Louisiana	25	6.3	43	12.9	68	9.3
	Maryland	22	5.6	54	15.4	76	10.2
	Mississippi	15	6.1	19	9.3	34	7.5
	North Carolina	43	7.9	55	10.8	98	9.3
	Oklahoma	22	8.6	30	13.2	52	10.8
	South Carolina	21	7.2	29	10.9	50	9.0
	Tennessee	24	6.0	47	13.2	71	9.4
	Texas	91	7.7	190	17.4	281	12.4
	Virginia	42	8.8	66	13.9	108	11.4
	West Virginia	6	3.4	21	14.5	27	8.4
	Total	445	6.8	842	14.3	1,287	10.4

Table 2 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Geographic Region, State, and Year
United States, 1970-80

Year	Geographic Region	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1973	West						
	Alaska	7	21.9	16	40.2	23	32.0
	Arizona	16	7.8	46	24.4	62	15.7
	California	205	10.6	384	20.4	589	15.4
	Colorado	24	9.6	58	23.5	82	16.5
	Hawaii	6	7.5	11	11.9	17	9.8
	Idaho	8	9.8	5	7.6	13	8.8
	Montana	10	13.2	11	17.9	21	15.3
	Nevada	7	14.5	10	21.3	17	17.9
	New Mexico	20	17.0	28	27.9	48	22.0
	Oregon	21	9.7	32	17.2	53	13.2
	Utah	5	3.9	11	9.5	16	6.6
	Washington	25	7.4	54	17.9	79	12.3
	Wyoming	4	11.2	5	16.3	9	13.5
	Total	358	10.1	671	20.0	1,029	14.9
1974	Northeast	209	4.5	476	11.8	685	7.9
	North Central	408	7.1	700	14.3	1,108	10.4
	South	490	7.4	856	14.0	1,346	10.5
	West	382	10.5	764	22.0	1,146	16.1
	TOTAL	1,489	7.2	2,796	15.1	4,285	10.9
1974	Northeast						
	Connecticut	16	5.6	30	12.0	46	8.6
	Maine	3	2.9	11	12.0	14	7.1
	Massachusetts	27	4.8	64	12.4	91	8.5
	New Hampshire	7	9.1	12	17.2	19	12.9
	New Jersey	28	4.2	60	10.9	88	7.2
	New York	69	4.2	134	9.1	203	6.5
	Pennsylvania	53	4.7	144	15.1	197	9.5
	Rhode Island	3	3.3	12	13.7	15	8.4
	Vermont	3	6.2	9	21.7	12	13.4
	Total	209	4.5	476	11.8	685	7.9
1974	North Central						
	Illinois	40	3.7	93	10.1	133	6.6
	Indiana	24	4.5	52	11.3	76	7.7
	Iowa	22	7.7	32	13.7	54	10.4
	Kansas	12	5.3	26	12.4	38	8.7
	Michigan	80	8.5	143	18.1	223	12.9
	Minnesota	47	11.7	56	16.7	103	14.0
	Missouri	33	7.2	63	16.1	96	11.3
	Nebraska	16	10.5	26	19.0	42	14.5
	North Dakota	6	8.7	13	21.1	19	14.5
	Ohio	81	7.6	134	14.7	215	10.9
	South Dakota	6	8.2	9	14.9	15	11.2
	Wisconsin	41	8.8	53	13.6	94	11.0
	Total	408	7.1	700	14.3	1,108	10.4

Table 2 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Geographic Region, State, and Year
United States, 1970-80

Year	Geographic Region	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1974	South						
	Alabama	12	3.3	29	9.2	41	6.0
	Arkansas	17	8.5	14	8.0	31	8.3
	Delaware	4	6.8	3	5.8	7	6.3
	Dist. of Columbia	5	7.7	7	9.0	12	8.4
	Florida	63	8.9	132	20.4	195	14.4
	Georgia	47	9.7	67	14.6	114	12.1
	Kentucky	17	5.0	22	7.3	39	6.1
	Louisiana	24	6.0	43	12.4	67	8.9
	Maryland	33	8.3	61	17.0	94	12.4
	Mississippi	12	4.8	19	8.9	31	6.7
	North Carolina	30	5.5	67	12.7	97	9.0
	Oklahoma	26	10.0	43	18.4	69	14.0
	South Carolina	25	8.4	25	9.0	50	8.7
	Tennessee	32	7.9	50	13.6	82	10.6
	Texas	97	8.0	194	17.1	291	12.4
	Virginia	37	7.6	63	12.9	100	10.3
	West Virginia	9	5.1	17	11.3	26	8.0
	Total	490	7.4	856	14.0	1,346	10.5
1974	West						
	Alaska	6	17.6	15	36.1	21	27.7
	Arizona	32	14.9	57	28.5	89	21.5
	California	195	9.9	422	21.8	617	15.8
	Colorado	33	12.9	53	20.9	86	16.9
	Hawaii	6	7.4	15	15.8	21	11.9
	Idaho	8	9.5	12	17.2	20	13.0
	Montana	9	11.6	21	32.5	30	21.1
	Nevada	8	15.8	19	38.4	27	27.0
	New Mexico	24	19.7	24	22.7	48	21.1
	Oregon	24	10.9	44	22.7	68	16.4
	Utah	7	5.4	15	12.4	22	8.8
	Washington	28	8.1	59	18.9	87	13.2
	Wyoming	2	5.4	8	24.2	10	14.2
	Total	382	10.5	764	22.0	1,146	16.1
1975	Northeast	277	6.0	539	13.2	816	9.3
	North Central	440	7.6	748	14.9	1,188	11.0
	South	521	7.7	1,029	16.3	1,550	11.8
	West	356	9.6	826	23.0	1,182	16.2
	TOTAL	1,594	7.6	3,142	16.5	4,736	11.8
1975	Northeast						
	Connecticut	18	6.2	37	14.5	55	10.1
	Maine	9	8.4	16	16.7	25	12.4
	Massachusetts	29	5.1	65	12.4	94	8.6
	New Hampshire	4	5.1	20	28.0	24	16.0
	New Jersey	38	5.6	70	12.5	108	8.7
	New York	78	4.7	154	10.4	232	7.4
	Pennsylvania	86	7.6	160	16.4	246	11.7
	Rhode Island	10	11.3	8	9.6	18	10.5
	Vermont	5	10.2	9	21.1	14	15.3
	Total	277	6.0	539	13.2	816	9.3

Table 2 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Geographic Region, State, and Year
United States, 1970-80

Year	Geographic Region	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1975	North Central						
	Illinois	54	4.9	109	11.6	163	8.0
	Indiana	30	5.6	63	13.5	93	9.3
	Iowa	16	5.5	30	12.4	46	8.7
	Kansas	19	8.3	25	11.6	44	9.9
	Michigan	90	9.4	156	19.2	246	13.9
	Minnesota	36	8.9	67	19.4	103	13.7
	Missouri	34	7.3	44	11.0	78	9.0
	Nebraska	14	9.1	17	12.0	31	10.5
	North Dakota	6	8.5	8	12.4	14	10.4
	Ohio	88	8.1	157	17.0	245	12.2
	South Dakota	8	10.8	5	8.0	13	9.5
	Wisconsin	45	9.6	67	16.6	112	12.8
	Total	440	7.6	748	14.9	1,188	11.0
1975	South						
	Alabama	27	7.3	35	10.7	62	8.9
	Arkansas	15	7.3	22	12.1	37	9.6
	Delaware	3	5.0	5	9.3	8	7.1
	Dist. of Columbia	5	7.8	13	17.0	18	12.8
	Florida	68	9.2	143	21.0	211	14.9
	Georgia	42	8.5	92	19.5	134	13.9
	Kentucky	27	7.8	45	14.5	72	11.0
	Louisiana	22	5.4	69	19.1	91	11.8
	Maryland	20	4.9	58	15.9	78	10.1
	Mississippi	10	4.0	19	8.6	29	6.1
	North Carolina	49	8.8	72	13.3	121	11.0
	Oklahoma	29	11.1	54	22.5	83	16.5
	South Carolina	18	5.9	42	14.6	60	10.2
	Tennessee	32	7.8	47	12.4	79	10.0
	Texas	106	8.6	200	17.0	306	12.7
	Virginia	40	8.1	96	19.1	136	13.6
	West Virginia	8	4.5	17	11.0	25	7.5
	Total	521	7.7	1,029	16.3	1,550	11.8
1975	West						
	Alaska	10	27.6	22	50.8	32	40.2
	Arizona	34	15.3	57	27.0	91	21.0
	California	174	8.6	467	23.4	641	16.0
	Colorado	20	7.7	60	22.9	80	15.3
	Hawaii	5	6.0	10	10.3	15	8.3
	Idaho	10	11.6	19	25.8	29	18.1
	Montana	11	13.9	10	14.8	21	14.3
	Nevada	6	11.3	18	34.6	24	22.8
	New Mexico	22	17.5	27	24.4	49	20.7
	Oregon	18	8.1	43	21.4	61	14.4
	Utah	20	15.1	20	15.8	40	15.5
	Washington	21	5.9	61	19.0	82	12.1
	Wyoming	5	13.0	12	34.1	17	23.0
		Total	356	9.6	826	23.0	1,182

Table 2 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Geographic Region, State, and Year
United States, 1970-80

Year	Geographic Region	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1976	Northeast	250	5.4	603	14.5	853	9.7
	North Central	449	7.7	807	15.8	1,256	11.5
	South	509	7.4	952	14.7	1,461	10.9
	West	348	9.2	829	22.4	1,177	15.7
	TOTAL	1,556	7.3	3,191	16.4	4,747	11.7
1976	Northeast						
	Connecticut	17	5.8	36	13.9	53	9.6
	Maine	6	5.6	19	19.5	25	12.2
	Massachusetts	25	4.4	77	14.6	102	9.3
	New Hampshire	4	4.9	10	13.5	14	9.0
	New Jersey	37	5.4	67	11.7	104	8.3
	New York	84	5.0	203	13.4	287	9.0
	Pennsylvania	66	5.8	160	16.3	226	10.7
	Rhode Island	6	6.7	19	22.3	25	14.3
	Vermont	5	10.0	12	27.5	17	18.2
	Total	250	5.4	603	14.5	853	9.7
1976	North Central						
	Illinois	64	5.8	131	13.7	195	9.5
	Indiana	32	6.0	50	10.5	82	8.1
	Iowa	19	6.5	47	19.0	66	12.3
	Kansas	20	8.7	32	14.5	52	11.5
	Michigan	90	9.4	174	21.2	264	14.9
	Minnesota	36	8.8	50	14.1	86	11.2
	Missouri	43	9.1	52	12.7	95	10.8
	Nebraska	10	6.5	20	13.9	30	10.0
	North Dakota	6	8.6	8	12.1	14	10.3
	Ohio	79	7.3	158	16.9	237	11.8
	South Dakota	5	6.7	13	20.2	18	13.0
	Wisconsin	45	9.4	72	17.4	117	13.1
	Total	449	7.7	807	15.8	1,256	11.5
1976	South						
	Alabama	20	5.3	35	10.4	55	7.7
	Arkansas	21	10.2	19	10.3	40	10.2
	Delaware	4	6.7	10	18.3	14	12.2
	Dist. of Columbia	3	4.7	15	19.7	18	12.9
	Florida	48	6.5	138	20.0	186	13.0
	Georgia	39	7.8	70	14.4	109	11.1
	Kentucky	24	6.8	42	13.1	66	9.8
	Louisiana	24	5.8	52	14.1	76	9.7
	Maryland	44	10.8	47	12.7	91	11.7
	Mississippi	16	6.3	27	12.0	43	9.0
	North Carolina	42	7.5	69	12.6	111	10.1
	Oklahoma	17	6.3	41	16.2	58	11.1
	South Carolina	13	4.2	32	10.9	45	7.5
	Tennessee	31	7.4	59	15.2	90	11.1
	Texas	115	9.1	205	16.7	320	12.8
	Virginia	40	7.9	82	16.0	122	12.0
	West Virginia	8	4.5	9	5.6	17	5.0
	Total	509	7.4	952	14.7	1,461	10.9

Table 2 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Geographic Region, State, and Year
United States, 1970-80

Year	Geographic Region	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1976	West						
	Alaska	7	17.1	22	45.5	29	32.5
	Arizona	20	8.9	51	23.8	71	16.2
	California	180	8.8	451	22.0	631	15.4
	Colorado	29	11.0	63	23.6	92	17.3
	Hawaii	6	7.1	11	11.2	17	9.3
	Idaho	12	13.6	22	28.8	34	20.7
	Montana	10	12.5	20	28.7	30	20.0
	Nevada	12	21.7	23	41.7	35	31.7
	New Mexico	16	12.4	42	36.5	58	23.8
	Oregon	13	5.7	38	18.3	51	11.7
	Utah	11	8.2	15	11.4	26	9.8
	Washington	25	6.9	63	19.0	88	12.7
	Wyoming	7	17.5	8	21.5	15	19.5
	Total	348	9.2	829	22.4	1,177	15.7
1977	Northeast	312	6.7	617	14.7	929	10.5
	North Central	518	8.9	919	17.6	1,437	13.0
	South	590	8.6	1,165	17.5	1,755	13.0
	West	451	11.8	993	25.9	1,444	18.9
	TOTAL	1,871	8.9	3,694	18.6	5,565	13.6
1977	Northeast						
	Connecticut	12	4.1	39	14.8	51	9.2
	Maine	11	10.1	18	18.0	29	13.9
	Massachusetts	38	6.8	75	14.1	113	10.3
	New Hampshire	7	8.4	16	20.6	23	14.3
	New Jersey	35	5.2	73	12.6	108	8.6
	New York	99	6.0	184	12.1	283	8.9
	Pennsylvania	89	8.0	189	19.0	278	13.2
	Rhode Island	16	17.9	14	16.1	30	17.0
	Vermont	5	10.0	9	20.2	14	14.8
	Total	312	6.7	617	14.7	929	10.5
1977	North Central						
	Illinois	77	7.0	147	15.0	224	10.8
	Indiana	38	7.1	79	16.3	117	11.5
	Iowa	30	10.3	46	18.2	76	14.0
	Kansas	16	7.0	48	21.1	64	14.0
	Michigan	100	10.6	159	19.0	259	14.5
	Minnesota	44	10.7	77	21.0	121	15.6
	Missouri	34	7.3	78	18.6	112	12.6
	Nebraska	11	7.2	20	13.7	31	10.3
	North Dakota	9	12.9	16	23.6	25	18.2
	Ohio	98	9.2	160	16.8	258	12.8
	South Dakota	5	6.8	7	10.7	12	8.6
	Wisconsin	56	11.7	82	19.4	138	15.3
	Total	518	8.9	919	17.6	1,437	13.0

Table 2 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Geographic Region, State, and Year
United States, 1970-80

Year	Geographic Region	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1977	South						
	Alabama	30	8.0	35	10.1	65	9.0
	Arkansas	17	8.2	34	17.8	51	12.8
	Delaware	8	13.4	7	12.7	15	13.0
	Dist. of Columbia	3	4.9	13	17.3	16	11.7
	Florida	67	9.1	161	22.9	228	15.8
	Georgia	50	10.0	78	15.7	128	12.9
	Kentucky	21	6.0	46	14.0	67	9.9
	Louisiana	28	6.7	73	19.0	101	12.6
	Maryland	39	9.6	79	21.2	118	15.1
	Mississippi	15	5.9	21	9.2	36	7.5
	North Carolina	46	8.3	85	15.4	131	11.8
	Oklahoma	30	11.1	49	18.8	79	14.9
	South Carolina	18	5.9	57	19.3	75	12.5
	Tennessee	27	6.4	64	16.0	91	11.1
	Texas	131	10.3	249	19.6	380	15.0
	Virginia	47	9.3	92	17.6	139	13.5
	West Virginia	13	7.3	22	13.3	35	10.2
	Total	590	8.6	1,165	17.5	1,755	13.0
1977	West						
	Alaska	10	24.3	18	35.8	28	30.6
	Arizona	44	19.4	68	30.9	112	25.1
	California	229	11.1	562	26.4	791	18.9
	Colorado	26	9.8	65	23.8	91	16.9
	Hawaii	5	6.0	18	18.2	23	12.6
	Idaho	11	12.3	23	28.8	34	20.1
	Montana	14	17.5	17	23.7	31	20.4
	Nevada	14	24.6	28	47.9	42	36.4
	New Mexico	29	22.4	45	37.4	74	29.6
	Oregon	21	9.2	45	20.9	66	14.8
	Utah	14	10.3	24	17.3	38	13.8
	Washington	31	8.5	73	21.1	104	14.7
	Wyoming	3	7.3	7	17.7	10	12.4
	Total	451	11.8	993	25.9	1,444	18.9
1978	Northeast	264	5.8	602	14.3	866	9.9
	North Central	496	8.6	896	16.8	1,392	12.6
	South	547	8.0	1,106	16.3	1,653	12.1
	West	379	9.9	825	20.8	1,204	15.4
	TOTAL	1,686	8.0	3,429	16.9	5,115	12.4
1978	Northeast						
	Connecticut	15	5.2	49	18.4	64	11.6
	Maine	9	8.3	8	7.9	17	8.1
	Massachusetts	23	4.1	70	13.1	93	8.5
	New Hampshire	9	10.7	14	17.2	23	13.9
	New Jersey	30	4.5	63	10.8	93	7.4
	New York	93	5.7	203	13.4	296	9.4
	Pennsylvania	78	7.1	169	17.0	247	11.8
	Rhode Island	2	2.3	16	18.3	18	10.2
	Vermont	5	10.0	10	22.0	15	15.7
	Total	264	5.8	602	14.3	866	9.9

Table 2 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Geographic Region, State, and Year
United States, 1970-80

Year	Geographic Region	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1978	North Central						
	Illinois	75	6.9	146	14.7	221	10.7
	Indiana	45	8.5	77	15.6	122	11.9
	Iowa	24	8.3	32	12.4	56	10.2
	Kansas	14	6.1	43	18.4	57	12.3
	Michigan	94	10.0	175	20.6	269	15.1
	Minnesota	31	7.6	64	17.0	95	12.1
	Missouri	44	9.5	67	15.5	111	12.4
	Nebraska	10	6.5	16	10.8	26	8.6
	North Dakota	4	5.8	9	13.1	13	9.5
	Ohio	91	8.6	175	18.0	266	13.1
	South Dakota	6	8.3	12	18.0	18	13.0
	Wisconsin	58	12.1	80	18.4	138	15.1
	Total	496	8.6	896	16.8	1,392	12.6
1978	South						
	Alabama	22	5.9	45	12.7	67	9.2
	Arkansas	13	6.2	29	14.8	42	10.4
	Delaware	8	13.6	10	17.9	18	15.7
	Dist. of Columbia	0	—	7	9.5	7	5.2
	Florida	65	8.9	140	19.8	205	14.2
	Georgia	34	6.8	80	15.9	114	11.4
	Kentucky	29	8.3	48	14.4	77	11.3
	Louisiana	38	9.1	69	17.5	107	13.2
	Maryland	34	8.4	74	19.7	108	13.8
	Mississippi	20	7.9	30	13.0	50	10.3
	North Carolina	38	6.9	61	10.9	99	8.9
	Oklahoma	25	9.2	76	28.0	101	18.6
	South Carolina	27	8.8	49	16.4	76	12.6
	Tennessee	31	7.4	50	12.2	81	9.7
	Texas	115	9.0	238	18.2	353	13.7
	Virginia	36	7.2	82	15.3	118	11.4
	West Virginia	12	6.8	18	10.8	30	8.8
	Total	547	8.0	1,106	16.3	1,653	12.1
1978	West						
	Alaska	10	25.2	12	24.6	22	24.8
	Arizona	34	15.0	70	31.2	104	23.0
	California	178	8.6	429	19.5	607	14.2
	Colorado	19	7.1	69	24.8	88	16.2
	Hawaii	15	18.0	15	15.1	30	16.4
	Idaho	13	14.5	13	15.6	26	15.0
	Montana	11	13.6	21	28.0	32	20.5
	Nevada	14	23.9	17	27.5	31	25.7
	New Mexico	15	11.6	38	30.8	53	21.0
	Oregon	21	9.1	42	18.7	63	13.8
	Utah	12	8.8	28	19.4	40	14.2
	Washington	33	9.0	61	16.8	94	12.9
	Wyoming	4	9.6	10	23.6	14	16.6
	Total	379	9.9	825	20.8	1,204	15.4

Table 2 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Geographic Region, State, and Year
United States, 1970-80

Year	Geographic Region	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate **	No.	Rate **	No.	Rate **
1979	Northeast	293		586		879	
	North Central	490		883		1,373	
	South	589		1,146		1,735	
	West	416		843		1,259	
	TOTAL	1,788		3,458		5,246	
1979	Northeast						
	Connecticut	20		31		51	
	Maine	11		15		26	
	Massachusetts	30		70		100	
	New Hampshire	4		16		20	
	New Jersey	37		62		99	
	New York	95		197		292	
	Pennsylvania	82		166		248	
	Rhode Island	7		19		26	
	Vermont	7		10		17	
	Total	293		586		879	
1979	North Central						
	Illinois	74		139		213	
	Indiana	43		80		123	
	Iowa	19		33		52	
	Kansas	18		35		53	
	Michigan	84		172		256	
	Minnesota	42		60		102	
	Missouri	39		67		106	
	Nebraska	16		21		37	
	North Dakota	7		17		24	
	Ohio	77		168		245	
	South Dakota	9		10		19	
	Wisconsin	62		81		143	
	Total	490		883		1,373	
1979	South						
	Alabama	22		48		70	
	Arkansas	12		30		42	
	Delaware	7		11		18	
	Dist. of Columbia	0		8		8	
	Florida	64		162		226	
	Georgia	38		80		118	
	Kentucky	42		38		80	
	Louisiana	43		78		121	
	Maryland	33		67		100	
	Mississippi	13		28		41	
	North Carolina	51		67		118	
	Oklahoma	36		56		92	
	South Carolina	19		38		57	
	Tennessee	37		70		107	
	Texas	119		241		360	
	Virginia	37		107		144	
	West Virginia	16		17		33	
	Total	589		1,146		1,735	

**Rates for 1979 by geographic region were not calculated because population estimates were not available.

Table 2 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Geographic Region, State, and Year
United States, 1970-80

Year	Geographic Region	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1979	West						
	Alaska	6		6		12	
	Arizona	29		65		94	
	California	196		426		622	
	Colorado	30		67		97	
	Hawaii	17		26		43	
	Idaho	5		19		24	
	Montana	10		14		24	
	Nevada	16		19		35	
	New Mexico	25		43		68	
	Oregon	22		46		68	
	Utah	15		28		43	
	Washington	38		72		110	
	Wyoming	7		12		19	
	Total	416		843		1,259	
1980	Northeast	313	6.9	615	14.2	928	10.5
	North Central	483	8.6	857	15.4	1,340	12.0
	South	611	8.6	1,169	16.4	1,780	12.5
	West	390	10.0	801	18.7	1,191	14.5
	TOTAL	1,797	8.5	3,442	16.1	5,239	12.3
1980	Northeast						
	Connecticut	18	6.2	32	11.7	50	8.9
	Maine	10	9.3	16	16.3	26	12.6
	Massachusetts	31	5.7	73	13.2	104	9.4
	New Hampshire	6	6.8	14	16.7	20	11.7
	New Jersey	42	6.3	83	13.5	125	9.7
	New York	103	6.4	196	12.7	299	9.6
	Pennsylvania	90	8.3	175	16.5	265	12.4
	Rhode Island	6	6.7	16	17.7	22	12.2
	Vermont	7	13.6	10	20.6	17	17.0
	Total	313	6.9	615	14.2	928	10.5
1980	North Central						
	Illinois	84	7.9	156	14.5	240	11.2
	Indiana	38	7.2	57	11.0	95	9.1
	Iowa	17	6.1	36	13.2	53	9.6
	Kansas	19	8.7	46	19.8	65	14.4
	Michigan	76	8.4	140	15.7	216	12.0
	Minnesota	33	8.3	69	17.5	102	12.9
	Missouri	43	9.3	71	15.9	114	12.6
	Nebraska	10	6.8	18	12.1	28	9.5
	North Dakota	10	15.6	16	23.1	26	19.5
	Ohio	91	9.0	162	16.1	253	12.6
	South Dakota	9	13.1	11	16.5	20	14.8
	Wisconsin	53	11.4	75	16.7	128	14.0
	Total	483	8.6	857	15.4	1,340	12.0

Table 2 (continued)
Number of Suicides and Suicide Rates* for All Persons 15-24 Years of Age
by Age Group, Geographic Region, State, and Year
United States, 1970-80

Year	Geographic Region	Age Group				Total	
		15-19		20-24		15-24	
		No.	Rate	No.	Rate	No.	Rate
1980	South						
	Alabama	19	5.0	55	15.2	74	10.0
	Arkansas	22	10.3	23	11.9	45	11.0
	Delaware	6	10.0	10	17.2	16	13.6
	Dist. of Columbia	4	6.9	7	10.1	11	8.6
	Florida	81	10.0	177	21.8	258	15.9
	Georgia	42	7.9	79	15.3	121	11.6
	Kentucky	32	9.0	50	14.4	82	11.7
	Louisiana	47	11.0	73	17.4	120	14.2
	Maryland	27	6.7	64	16.3	91	11.4
	Mississippi	15	5.8	40	17.1	55	11.2
	North Carolina	46	8.1	83	14.3	129	11.3
	Oklahoma	27	9.7	51	17.9	78	13.8
	South Carolina	22	6.9	35	11.2	57	9.0
	Tennessee	27	6.3	58	13.7	85	10.0
	Texas	136	10.1	246	17.3	382	13.8
	Virginia	44	8.7	88	16.6	132	12.7
	West Virginia	14	8.0	30	17.4	44	12.7
	Total	611	8.6	1,169	16.4	1,780	12.5
1980	West						
	Alaska	6	16.1	15	33.3	21	25.5
	Arizona	33	13.1	62	23.5	95	18.4
	California	191	9.0	357	15.2	548	12.0
	Colorado	30	11.2	60	19.8	90	15.8
	Hawaii	4	4.6	19	18.0	23	12.0
	Idaho	9	10.2	18	20.9	27	15.5
	Montana	12	16.1	16	21.6	28	18.8
	Nevada	11	15.7	28	36.2	39	26.4
	New Mexico	15	11.3	49	39.1	64	24.8
	Oregon	31	13.7	45	18.9	76	16.4
	Utah	11	7.9	30	19.3	41	13.9
	Washington	33	8.9	87	21.7	120	15.6
	Wyoming	4	9.4	15	29.6	19	20.4
	Total	390	10.0	801	18.7	1,191	14.5

Source: National Center for Health Statistics annual mortality data files
U.S. Bureau of the Census population estimates data file

Table 3
Number and Percent of Suicides For All Persons 15-24
Years of Age by Sex, Method of Suicide, and Year
United States, 1970-1980

YEAR	METHOD OF SUICIDE	15-24 AGE GROUP					
		Male		Female		Total	
		NO.	%	NO.	%	NO.	%
1970	Firearms and explosives	1,233	51.9	242	32.3	1,475	47.2
	Hanging, strangulation and suffocation	404	17.0	66	8.8	470	15.0
	Poisoning by solid or liquid substances	336	14.1	318	42.4	654	20.9
	Poisoning by gases	218	9.2	44	5.9	262	8.4
	Other means	187	7.9	80	10.7	267	8.5
	TOTAL	2,378	100.0	750	100.0	3,128	100.0
1971	Firearms and explosives	1,413	54.2	332	38.2	1,745	50.2
	Hanging, strangulation and suffocation	472	18.1	66	7.5	538	15.5
	Poisoning by solid or liquid substances	319	12.2	343	39.4	662	19.0
	Poisoning by gases	209	8.0	47	5.4	256	7.4
	Other means	196	7.5	82	9.4	278	8.0
	TOTAL	2,609	100.0	870	100.0	3,479	100.0
1972	Firearms and explosives	1,768	59.6	378	42.5	2,146	55.6
	Hanging, strangulation and suffocation	448	15.1	76	8.5	524	13.6
	Poisoning by solid or liquid substances	314	10.6	314	35.3	628	16.3
	Poisoning by gases	246	8.3	38	4.3	284	7.4
	Other means	192	6.5	84	9.4	276	7.2
	TOTAL	2,968	100.0	890	100.0	3,858	100.0
1973	Firearms and explosives	1,923	58.7	333	40.6	2,256	55.1
	Hanging, strangulation and suffocation	611	18.6	82	10.0	693	16.9
	Poisoning by solid or liquid substances	253	7.7	294	35.8	547	13.3
	Poisoning by gases	266	8.1	39	4.8	305	7.4
	Other means	224	6.8	73	8.9	297	7.2
	TOTAL	3,277	100.0	821	100.0	4,098	100.0
1974	Firearms and explosives	2,111	62.5	426	47.0	2,537	59.2
	Hanging, strangulation and suffocation	585	17.3	68	7.5	653	15.2
	Poisoning by solid or liquid substances	217	6.4	266	29.3	483	11.3
	Poisoning by gases	251	7.4	70	7.7	321	7.5
	Other means	214	6.3	77	8.5	291	6.8
	TOTAL	3,378	100.0	907	100.0	4,285	100.0
1975	Firearms and explosives	2,294	60.6	450	47.4	2,744	57.9
	Hanging, strangulation and suffocation	706	18.6	91	9.5	797	16.8
	Poisoning by solid or liquid substances	282	7.4	261	27.5	543	11.5
	Poisoning by gases	290	7.7	60	6.3	350	7.4
	Other means	215	5.7	87	9.2	302	6.4
	TOTAL	3,787	100.0	949	100.0	4,736	100.0

Table 3 (continued)
Number and Percent of Suicides For All Persons 15-24
Years of Age by Sex, Method of Suicide, and Year
United States, 1970-1980

YEAR	METHOD OF SUICIDE	15-24 AGE GROUP					
		Male		Female		Total	
		NO.	%	NO.	%	NO.	%
1976	Firearms and explosives	2,255	59.6	432	45.0	2,687	56.6
	Hanging, strangulation and suffocation	692	18.3	113	11.3	805	17.0
	Poisoning by solid or liquid substances	285	7.5	265	27.6	550	11.6
	Poisoning by gases	289	7.6	53	5.5	342	7.2
	Other means	265	7.0	98	10.2	363	7.6
	TOTAL	3,786	100.0	961	100.0	4,747	100.0
1977	Firearms and explosives	2,813	62.6	519	48.4	3,332	59.9
	Hanging, strangulation and suffocation	757	16.9	96	8.9	853	15.3
	Poisoning by solid or liquid substances	305	6.8	310	28.9	615	11.1
	Poisoning by gases	331	7.4	55	5.1	386	6.9
	Other means	286	6.4	93	8.7	379	6.8
	TOTAL	4,492	100.0	1,073	100.0	5,565	100.0
1978	Firearms and explosives	2,592	62.6	481	49.5	3,073	60.1
	Hanging, strangulation and suffocation	722	17.4	75	7.7	797	15.6
	Poisoning by solid or liquid substances	254	6.1	234	24.1	488	9.5
	Poisoning by gases	296	7.1	63	6.5	359	7.0
	Other means	279	6.7	119	12.2	398	7.8
	TOTAL	4,143	100.0	972	100.0	5,115	100.0
1979	Firearms and explosives	2,709	63.8	512	51.1	3,221	61.4
	Hanging, strangulation and suffocation	713	16.8	93	9.3	806	15.4
	Poisoning by solid or liquid substances	225	5.3	232	23.2	457	8.7
	Poisoning by gases	275	6.5	62	6.2	337	6.4
	Other means	323	7.6	102	10.2	425	8.1
	TOTAL	4,245	100.0	1,001	100.0	5,246	100.0
1980	Firearms and explosives	2,787	64.3	474	52.5	3,261	62.2
	Hanging, strangulation and suffocation	792	18.3	91	10.1	883	16.9
	Poisoning by solid or liquid substances	216	5.0	181	20.0	397	7.6
	Poisoning by gases	263	6.1	71	7.9	334	6.4
	Other means	278	6.4	86	9.5	364	6.9
	TOTAL	4,336	100.0	903	100.0	5,239	100.0
1970-80	Firearms and explosives	23,898	60.7	4,579	45.4	28,477	57.5
	Hanging, strangulation and suffocation	6,902	17.5	917	9.1	7,819	15.8
	Poisoning by solid or liquid substances	3,006	7.6	3,018	29.9	6,024	12.2
	Poisoning by gases	2,934	7.4	602	6.0	3,536	7.1
	Other means	2,659	6.7	981	9.7	3,640	7.4
	TOTAL	39,399	100.0	10,097	100.0	49,496	100.0

Source: National Center for Health Statistics Annual Mortality Data Files

Note: Method of Suicide — 1970-78: 8th Revision of the International Classification of Diseases Adapted for Use in the U.S. 1979-80: 9th Revision of the International Classification of Diseases

Table 3A
Number and Percent of Suicides For All Persons 15-19
Years of Age by Sex, Method of Suicide, and Year
United States, 1970-1980

YEAR	METHOD OF SUICIDE	15-19 AGE GROUP					
		Male		Female		Total	
		NO.	%	NO.	%	NO.	%
1970	Firearms and explosives	445	52.3	93	34.2	538	47.9
	Hanging, strangulation and suffocation	182	21.4	23	8.5	205	18.3
	Poisoning by solid or liquid substances	85	10.0	113	41.5	198	17.6
	Poisoning by gases	80	9.4	20	7.4	100	8.9
	Other means	59	6.9	23	8.5	82	7.3
	TOTAL	851	100.0	272	100.0	1,123	100.0
1971	Firearms and explosives	542	55.4	110	36.7	652	51.0
	Hanging, strangulation and suffocation	196	20.0	24	8.0	220	17.2
	Poisoning by solid or liquid substances	105	10.7	127	42.3	232	18.1
	Poisoning by gases	79	8.1	18	6.0	97	7.6
	Other means	57	5.8	21	7.0	78	6.1
	TOTAL	979	100.0	300	100.0	1,279	100.0
1972	Firearms and explosives	644	58.2	114	41.0	758	54.8
	Hanging, strangulation and suffocation	214	19.3	20	7.2	234	16.9
	Poisoning by solid or liquid substances	78	7.1	100	36.0	178	12.9
	Poisoning by gases	90	8.1	14	5.0	104	7.5
	Other means	80	7.2	30	10.8	110	7.9
	TOTAL	1,106	100.0	278	100.0	1,384	100.0
1973	Firearms and explosives	670	60.2	120	38.2	790	55.4
	Hanging, strangulation and suffocation	236	21.2	29	9.2	265	18.6
	Poisoning by solid or liquid substances	72	6.5	122	38.9	194	13.6
	Poisoning by gases	79	7.1	17	5.4	96	6.7
	Other means	56	5.0	26	8.3	82	5.7
	TOTAL	1,113	100.0	314	100.0	1,427	100.0
1974	Firearms and explosives	716	61.7	176	53.5	892	59.9
	Hanging, strangulation and suffocation	226	19.5	22	6.7	248	16.7
	Poisoning by solid or liquid substances	66	5.7	82	24.9	148	9.9
	Poisoning by gases	82	7.1	24	7.3	106	7.1
	Other means	70	6.0	25	7.6	95	6.4
	TOTAL	1,160	100.0	329	100.0	1,489	100.0
1975	Firearms and explosives	792	61.4	165	54.1	957	60.0
	Hanging, strangulation and suffocation	284	22.0	38	12.5	322	20.2
	Poisoning by solid or liquid substances	70	5.4	72	23.6	142	8.9
	Poisoning by gases	85	6.6	10	3.3	95	6.0
	Other means	58	4.5	20	6.5	78	4.9
	TOTAL	1,289	100.0	305	100.0	1,594	100.0

Table 3A (continued)
Number and Percent of Suicides For All Persons 15-19
Years of Age by Sex, Method of Suicide, and Year
United States, 1970-1980

YEAR	METHOD OF SUICIDE	15-19 AGE GROUP					
		Male		Female		Total	
		NO.	%	NO.	%	NO.	%
1976	Firearms and explosives	739	60.5	172	51.3	911	58.5
	Hanging, strangulation and suffocation	263	21.5	33	9.9	296	19.0
	Poisoning by solid or liquid substances	70	5.7	89	26.6	159	10.2
	Poisoning by gases	79	6.5	8	2.4	87	5.6
	Other means	70	5.7	33	9.9	103	6.6
	TOTAL	1,221	100.0	335	100.0	1,556	100.0
1977	Firearms and explosives	979	64.4	192	54.9	1,171	62.6
	Hanging, strangulation and suffocation	282	18.6	34	9.7	317	16.9
	Poisoning by solid or liquid substances	66	4.3	84	24.0	150	8.0
	Poisoning by gases	112	7.4	16	4.5	128	6.8
	Other means	81	5.3	24	6.9	105	5.6
	TOTAL	1,521	100.0	350	100.0	1,871	100.0
1978	Firearms and explosives	885	64.7	175	54.9	1,060	62.9
	Hanging, strangulation and suffocation	271	19.8	30	9.4	301	17.9
	Poisoning by solid or liquid substances	55	4.0	60	18.8	115	6.8
	Poisoning by gases	76	5.6	16	5.0	92	5.5
	Other means	80	5.9	38	11.9	118	7.0
	TOTAL	1,367	100.0	319	100.0	1,636	100.0
1979	Firearms and explosives	966	66.5	171	50.9	1,137	63.6
	Hanging, strangulation and suffocation	255	17.6	39	11.6	294	16.4
	Poisoning by solid or liquid substances	56	3.9	78	23.2	134	7.5
	Poisoning by gases	90	6.2	16	4.8	106	5.9
	Other means	85	5.9	32	9.5	117	6.5
	TOTAL	1,452	100.0	336	100.0	1,788	100.0
80	Firearms and explosives	962	64.9	175	55.7	1,137	63.3
	Hanging, strangulation and suffocation	324	21.8	35	11.1	359	20.0
	Poisoning by solid or liquid substances	58	3.9	54	17.2	112	6.2
	Poisoning by gases	73	4.9	23	7.3	96	5.3
	Other means	66	4.5	27	8.6	93	5.2
	TOTAL	1,483	100.0	314	100.0	1,797	100.0
70-80	Firearms and explosives	8,340	61.6	1,663	48.2	10,003	58.9
	Hanging, strangulation and suffocation	2,734	20.2	327	9.5	3,061	18.0
	Poisoning by solid or liquid substances	781	5.8	981	28.4	11,762	10.4
	Poisoning by gases	925	6.8	182	5.3	1,107	6.5
	Other means	762	5.6	299	8.7	1,061	6.2
	TOTAL	13,542	100.0	3,452	100.0	16,994	100.0

Source: National Center for Health Statistics Annual Mortality Data Files

Note: Method of Suicide — 1970-78: 8th Revision of the International Classification of Diseases Adapted for Use in the U.S. 1979-80: 9th Revision of the International Classification of Diseases

Table 3B
Number and Percent of Suicides For All Persons 20-24
Years of Age by Sex, Method of Suicide, and Year
United States, 1970-1980

YEAR	METHOD OF SUICIDE	20-24 AGE GROUP					
		Male		Female		Total	
		NO.	%	NO.	%	NO.	%
1970	Firearms and explosives	788	51.6	149	31.2	937	46.7
	Hanging, strangulation and suffocation	222	14.5	43	9.0	265	13.2
	Poisoning by solid or liquid substances	251	16.4	205	42.9	456	22.7
	Poisoning by gases	138	9.0	24	5.0	162	8.1
	Other means	128	8.4	57	11.9	185	9.2
	TOTAL	1,527	100.0	487	100.0	2,005	100.0
1971	Firearms and explosives	871	53.4	222	38.9	1,093	49.7
	Hanging, strangulation and suffocation	276	16.9	42	7.4	318	14.5
	Poisoning by solid or liquid substances	214	13.1	216	37.9	430	19.5
	Poisoning by gases	130	8.0	29	5.1	159	7.2
	Other means	139	8.5	61	10.7	200	9.1
	TOTAL	1,630	100.0	570	100.0	2,200	100.0
1972	Firearms and explosives	1,124	60.4	264	43.1	1,388	56.1
	Hanging, strangulation and suffocation	234	12.6	56	9.2	290	11.7
	Poisoning by solid or liquid substances	236	12.7	214	35.0	450	18.2
	Poisoning by gases	156	8.4	24	3.9	180	7.3
	Other means	112	6.0	54	8.3	166	6.7
	TOTAL	1,862	100.0	612	100.0	2,474	100.0
1973	Firearms and explosives	1,253	57.9	213	42.0	1,466	54.9
	Hanging, strangulation and suffocation	375	17.3	53	10.5	428	16.0
	Poisoning by solid or liquid substances	181	8.4	172	33.9	353	13.2
	Poisoning by gases	187	8.6	22	4.3	209	7.8
	Other means	168	7.8	47	9.3	215	8.0
	TOTAL	2,164	100.0	507	100.0	2,671	100.0
1974	Firearms and explosives	1,395	62.9	250	43.3	1,645	58.8
	Hanging, strangulation and suffocation	359	16.2	46	8.0	405	14.5
	Poisoning by solid or liquid substances	151	6.8	184	31.8	335	12.0
	Poisoning by gases	169	7.6	46	8.0	215	7.7
	Other means	144	6.5	52	9.0	196	7.0
	TOTAL	2,218	100.0	578	100.0	2,796	100.0
1975	Firearms and explosives	1,502	60.1	285	44.3	1,787	56.9
	Hanging, strangulation and suffocation	422	16.9	53	8.2	475	15.1
	Poisoning by solid or liquid substances	212	8.5	189	29.3	401	12.8
	Poisoning by gases	205	8.2	50	7.8	255	8.1
	Other means	157	6.3	67	10.4	224	7.1
	TOTAL	2,498	100.0	644	100.0	3,142	100.0

Table 3B (continued)
Number and Percent of Suicides For All Persons 20-24
Years of Age by Sex, Method of Suicide, and Year
United States, 1970-1980

YEAR	METHOD OF SUICIDE	20-24 AGE GROUP					
		Male		Female		Total	
		NO.	%	NO.	%	NO.	%
1976	Firearms and explosives	1,516	59.1	260	41.5	1,776	55.7
	Hanging, strangulation and suffocation	429	16.7	80	12.3	509	16.0
	Poisoning by solid or liquid substances	215	8.4	176	28.1	391	12.3
	Poisoning by gases	210	8.2	45	7.2	255	8.0
	Other means	195	7.6	65	10.4	260	8.1
	TOTAL	2,565	100.0	626	100.0	3,191	100.0
1977	Firearms and explosives	1,834	61.7	327	45.2	2,161	58.5
	Hanging, strangulation and suffocation	474	16.0	62	8.6	536	14.5
	Poisoning by solid or liquid substances	239	8.0	226	31.3	465	12.6
	Poisoning by gases	219	7.4	39	5.4	258	7.0
	Other means	205	6.9	69	9.5	274	7.4
	TOTAL	2,971	100.0	723	100.0	3,694	100.0
1978	Firearms and explosives	1,707	61.5	306	46.9	2,013	58.7
	Hanging, strangulation and suffocation	451	16.2	45	6.9	496	14.5
	Poisoning by solid or liquid substances	199	7.2	174	26.5	373	10.9
	Poisoning by gases	220	7.9	47	7.2	267	7.8
	Other means	199	7.2	81	12.4	280	8.2
	TOTAL	2,776	100.0	653	100.0	3,429	100.0
1979	Firearms and explosives	1,743	62.4	341	51.3	2,084	60.3
	Hanging, strangulation and suffocation	458	16.4	54	8.1	512	14.8
	Poisoning by solid or liquid substances	169	6.1	154	23.2	323	9.3
	Poisoning by gases	185	6.6	46	6.9	231	6.7
	Other means	238	8.5	70	10.5	308	8.9
	TOTAL	2,793	100.0	665	100.0	3,458	100.0
1980	Firearms and explosives	1,825	64.0	299	50.8	2,124	61.7
	Hanging, strangulation and suffocation	468	16.4	56	9.5	524	15.2
	Poisoning by solid or liquid substances	158	5.5	127	21.6	285	8.3
	Poisoning by gases	190	6.7	48	8.1	238	6.9
	Other means	212	7.4	59	10.0	271	7.9
	TOTAL	2,853	100.0	589	100.0	3,442	100.0
1970-80	Firearms and explosives	1,558	6.0	2,916	43.9	18,474	56.8
	Hanging, strangulation and suffocation	4,168	16.1	590	8.9	4,758	14.6
	Poisoning by solid or liquid substances	2,225	8.6	2,037	30.7	4,262	13.1
	Poisoning by gases	2,009	7.8	420	6.3	2,429	7.5
	Other means	1,897	7.3	682	10.3	2,579	7.9
	TOTAL	25,857	100.0	6,645	100.0	32,502	100.0

Source: National Center for Health Statistics Annual Mortality Data Files

Note: Method of Suicide — 1970-78: 8th Revision of the International Classification of Diseases Adapted for Use in the U.S. 1979-80: 9th Revision of the International Classification of Diseases

Table 4
Number and Percent of Suicides for All Persons 15-24
Years of Age by Age Group and SMSA Status by State
United States, 1970 and 1978

Year	SMSA Status	Age Group				Total	
		15-19		20-24		15-24	
		No.	Percent	No.	Percent	No.	Percent
1970	SMSA	808	72.0	1,536	76.6	2,344	74.9
	Non-SMSA	315	28.0	469	23.4	784	25.1
	Total	1,123	100.0	2,005	100.0	3,128	100.0
Alabama							
	SMSA	4	40.0	10	55.6	14	50.0
	Non-SMSA	6	60.0	8	44.4	14	50.0
Alaska							
	SMSA	0	0.0	0	0.0	0	0.0
	Non-SMSA	2	100.0	9	100.0	11	100.0
Arizona							
	SMSA	11	78.6	25	75.8	36	76.6
	Non-SMSA	3	21.4	8	24.2	11	23.4
Arkansas							
	SMSA	3	21.4	4	36.4	7	28.0
	Non-SMSA	11	78.6	8	63.6	18	72.0
California							
	SMSA	208	93.7	394	96.1	602	95.3
	Non-SMSA	14	6.3	16	3.9	30	4.7
Colorado							
	SMSA	17	89.5	28	82.4	45	84.9
	Non-SMSA	2	10.5	6	17.6	8	15.1
Connecticut							
	SMSA	17	100.0	19	95.0	36	97.3
	Non-SMSA	0	0.0	1	5.0	1	2.7
Delaware							
	SMSA	2	100.0	6	66.7	8	72.7
	Non-SMSA	0	0.0	3	33.3	3	27.3
District of Columbia							
	SMSA	1	100.0	8	100.0	9	100.0
	Non-SMSA	0	0.0	0	0.0	0	0.0
Florida							
	SMSA	31	68.9	52	88.1	83	79.8
	Non-SMSA	14	31.1	7	11.9	21	20.2
Georgia							
	SMSA	12	57.1	30	71.4	42	66.7
	Non-SMSA	9	42.9	12	28.6	21	33.3
Hawaii							
	SMSA	1	50.0	6	100.0	7	87.5
	Non-SMSA	1	50.0	0	0.0	1	12.5

SMSA Status = Residence in a Standard Metropolitan Statistical Area county

Table 4 (continued)
Number and Percent of Suicides for All Persons 15-24
Years of Age by Age Group and SMSA Status by State
United States, 1970 and 1978

Year	SMSA Status	Age Group				Total	
		15-19		20-24		15-24	
		No.	Percent	No.	Percent	No.	Percent
1970	Idaho						
	SMSA	1	14.3	2	16.7	3	15.8
	Non-SMSA	6	85.7	10	83.3	16	84.2
	Illinois						
	SMSA	39	79.6	70	83.3	109	82.0
	Non-SMSA	10	20.4	14	16.7	24	18.0
	Indiana						
	SMSA	21	75.0	35	72.9	56	73.7
	Non-SMSA	7	25.0	13	27.1	20	26.3
	Iowa						
	SMSA	4	36.4	9	56.3	13	48.1
	Non-SMSA	7	63.6	7	43.8	14	51.9
	Kansas						
	SMSA	1	9.1	9	39.1	10	29.4
	Non-SMSA	10	90.9	14	60.9	24	70.6
	Kentucky						
	SMSA	2	33.3	10	45.5	12	42.9
	Non-SMSA	4	66.7	12	54.5	16	57.1
	Louisiana						
	SMSA	5	35.7	18	64.3	23	54.8
	Non-SMSA	9	64.3	10	35.7	19	45.2
	Maine						
	SMSA	1	14.3	2	28.6	3	21.4
	Non-SMSA	6	85.7	5	71.4	11	78.6
	Maryland						
	SMSA	11	84.6	39	88.6	50	87.7
	Non-SMSA	2	15.4	5	11.4	7	12.3
	Massachusetts						
	SMSA	20	95.2	51	100.0	71	98.6
	Non-SMSA	1	4.8	0	0.0	1	1.4
	Michigan						
	SMSA	46	78.0	67	79.8	113	79.0
	Non-SMSA	13	22.0	17	20.2	30	21.0
	Minnesota						
	SMSA	12	70.6	22	71.0	34	70.8
	Non-SMSA	5	29.4	9	29.0	14	29.2
	Mississippi						
	SMSA	5	55.6	4	36.4	9	45.0
	Non-SMSA	4	44.4	7	63.6	11	55.0

Table 4 (continued)
Number and Percent of Suicides for All Persons 15-24
Years of Age by Age Group and SMSA Status by State
United States, 1970 and 1978

Year	SMSA Status	Age Group				Total	
		15-19		20-24		15-24	
		No.	Percent	No.	Percent	No.	Percent
1970	Missouri						
	SMSA	31	86.1	14	50.0	45	70.3
	Non-SMSA	5	13.9	14	50.0	19	29.7
	Montana						
	SMSA	3	50.0	1	14.3	4	30.8
	Non-SMSA	3	50.0	6	85.7	9	69.2
	Nebraska						
	SMSA	0	0.0	4	40.0	4	36.4
	Non-SMSA	1	100.0	6	60.0	7	63.3
	Nevada						
	SMSA	1	50.0	6	75.0	7	70.0
	Non-SMSA	1	50.0	2	25.0	3	30.0
	New Hampshire						
	SMSA	2	100.0	4	66.7	6	75.0
	Non-SMSA	0	0.0	2	33.3	2	25.0
	New Jersey						
	SMSA	18	81.8	28	68.3	46	73.0
	Non-SMSA	4	18.2	13	31.7	17	27.0
	New Mexico						
	SMSA	3	27.3	11	50.0	14	42.4
	Non-SMSA	8	72.7	11	50.0	19	57.6
	New York						
	SMSA	51	82.3	93	79.5	144	80.4
	Non-SMSA	11	17.7	24	20.5	35	19.6
	North Carolina						
	SMSA	9	36.0	14	45.2	23	41.1
	Non-SMSA	16	64.0	17	54.8	33	58.9
	North Dakota						
	SMSA	0	0.0	0	0.0	0	0.0
	Non-SMSA	5	100.0	2	100.0	7	100.0
	Ohio						
	SMSA	38	73.1	85	81.7	123	78.8
	Non-SMSA	14	26.9	19	18.3	33	21.2
	Oklahoma						
	SMSA	5	50.0	11	64.7	16	59.3
	Non-SMSA	5	50.0	6	35.3	11	40.7
	Oregon						
	SMSA	8	72.7	15	62.5	23	65.7
	Non-SMSA	3	27.3	9	37.5	12	34.3
	Pennsylvania						
	SMSA	45	75.0	95	87.2	140	82.8
	Non-SMSA	15	25.0	14	12.8	29	17.2

Table 4 (continued)
Number and Percent of Suicides for All Persons 15-24
Years of Age by Age Group and SMSA Status by State
United States, 1970 and 1978

Year	SMSA Status	Age Group				Total	
		15-19		20-24		15-24	
		No.	Percent	No.	Percent	No.	Percent
1970	Rhode Island						
	SMSA	2	100.0	6	100.0	8	100.0
	Non-SMSA	0	0.0	0	0.0	0	0.0
	South Carolina						
	SMSA	2	22.2	9	40.9	11	35.5
	Non-SMSA	7	77.8	13	59.1	20	64.5
	South Dakota						
	SMSA	0	0.0	0	0.0	0	0.0
	Non-SMSA	5	100.0	3	100.0	8	100.0
	Tennessee						
	SMSA	11	64.7	15	50.0	26	55.3
	Non-SMSA	6	35.3	15	50.0	21	44.7
	Texas						
	SMSA	53	84.1	102	82.3	155	82.9
	Non-SMSA	10	15.9	22	17.7	32	17.1
	Utah						
	SMSA	10	66.7	16	88.9	26	78.8
	Non-SMSA	5	33.3	2	11.1	7	21.2
	Vermont						
	SMSA	0	0.0	0	0.0	0	0.0
	Non-SMSA	4	100.0	5	100.0	9	100.0
	Virginia						
	SMSA	18	62.1	33	57.9	51	59.3
	Non-SMSA	11	37.9	24	42.1	35	40.7
	Washington						
	SMSA	11	61.1	31	64.6	42	63.6
	Non-SMSA	7	38.9	17	35.4	24	36.4
	West Virginia						
	SMSA	1	16.7	2	33.3	3	25.0
	Non-SMSA	5	83.3	4	66.7	9	75.0
	Wisconsin						
	SMSA	11	47.8	21	61.8	32	56.1
	Non-SMSA	12	52.2	13	38.2	25	43.9
	Wyoming						
	SMSA	0	0.0	0	0.0	0	0.0
	Non-SMSA	6	100.0	6	100.0	12	100.0

Source: National Center for Health Statistics Annual Mortality Data Files

Table 4 (continued)
Number and Percent of Suicides for All Persons 15-24
Years of Age by Age Group and SMSA Status by State
United States, 1970 and 1978

Year	SMSA Status	Age Group				Total	
		15-19		20-24		15-24	
		No.	Percent	No.	Percent	No.	Percent
1978	SMSA	1,133	62.1	2,524	73.6	3,657	71.5
	Non-SMSA	553	32.8	905	26.4	1,458	28.5
	Total	1,686	100.0	3,429	100.0	5,115	100.0
	Alabama						
	SMSA	12	54.5	30	66.7	42	62.7
	Non-SMSA	10	45.5	15	33.3	25	37.3
	Alaska						
	SMSA	0	0.0	0	0.0	0	0.0
	Non-SMSA	10	100.0	12	100.0	22	100.0
	Arizona						
	SMSA	23	67.6	55	78.6	78	75.0
	Non-SMSA	11	32.4	15	21.4	26	25.0
	Arkansas						
	SMSA	5	38.5	9	31.0	14	33.3
	Non-SMSA	8	61.5	20	69.0	28	66.7
	California						
	SMSA	164	92.1	401	93.5	565	93.1
	Non-SMSA	14	7.0	28	6.5	42	6.9
	Colorado						
	SMSA	18	94.7	52	75.4	70	79.5
	Non-SMSA	1	5.3	17	24.6	18	20.5
	Connecticut						
	SMSA	13	86.7	46	93.9	59	92.2
	Non-SMSA	2	13.3	3	6.1	5	7.8
	Delaware						
	SMSA	6	75.0	9	90.0	15	83.3
	Non-SMSA	2	25.0	1	10.0	3	16.7
	District of Columbia						
	SMSA	0	0.0	7	100.0	7	100.0
	Non-SMSA	0	0.0	0	0.0	0	0.0
	Florida						
	SMSA	38	58.5	96	68.6	134	65.4
	Non-SMSA	27	41.5	44	31.4	71	34.6
	Georgia						
	SMSA	13	38.2	58	72.5	71	62.3
	Non-SMSA	21	61.8	22	27.5	43	37.7
	Hawaii						
	SMSA	12	80.0	11	73.3	23	76.7
	Non-SMSA	3	20.0	4	26.7	7	23.3

Table 4 (continued)
Number and Percent of Suicides for All Persons 15-24
Years of Age by Age Group and SMSA Status by State
United States, 1970 and 1978

SMSA Status	Age Group				Total	
	15-19		20-24		15-24	
	No.	Percent	No.	Percent	No.	Percent
Idaho						
SMSA	3	23.1	2	15.4	5	19.2
Non-SMSA	10	76.9	11	84.6	21	80.8
Illinois						
SMSA	59	78.7	121	82.9	180	81.4
Non-SMSA	16	21.3	25	17.1	41	18.6
Indiana						
SMSA	25	55.6	47	61.0	72	59.0
Non-SMSA	16	21.3	25	17.1	41	18.6
Iowa						
SMSA	4	16.7	16	50.0	20	35.7
Non-SMSA	20	83.3	16	50.0	36	64.3
Kansas						
SMSA	7	50.0	27	62.8	34	59.6
Non-SMSA	7	50.0	16	37.2	23	40.4
Kentucky						
SMSA	15	51.7	21	43.8	36	46.8
Non-SMSA	14	48.3	27	56.3	41	53.2
Louisiana						
SMSA	17	44.7	45	65.2	62	57.9
Non-SMSA	21	55.3	24	34.8	45	42.1
Maine						
SMSA	3	33.3	4	50.0	7	41.2
Non-SMSA	6	66.7	4	50.0	10	58.8
Maryland						
SMSA	31	91.2	67	90.5	98	90.7
Non-SMSA	3	8.8	7	9.5	10	9.3
Massachusetts						
SMSA	21	91.3	68	97.1	89	95.7
Non-SMSA	2	8.7	2	2.9	4	4.3
Michigan						
SMSA	69	73.4	137	78.3	206	76.6
Non-SMSA	15	48.4	17	26.6	32	33.7
Mississippi						
SMSA	5	25.0	7	20.0	11	22.0
Non-SMSA	15	75.0	24	80.0	39	78.0
Missouri						
SMSA	29	65.9	48	71.6	77	69.4
Non-SMSA	15	34.1	19	28.4	34	30.6

Table 4 (continued)
Number and Percent of Suicides for All Persons 15-24
Years of Age by Age Group and SMSA Status by State
United States, 1970 and 1978

Year	SMSA Status	Age Group				Total	
		15-19		20-24		15-24	
		No.	Percent	No.	Percent	No.	Percent
1978	Montana						
	SMSA	1	9.1	7	33.3	8	25.0
	Non-SMSA	10	90.9	14	66.7	24	75.0
	Nebraska						
	SMSA	4	40.0	7	43.8	11	42.3
	Non-SMSA	6	60.0	9	56.2	15	57.7
	Nevada						
	SMSA	12	85.7	14	83.4	26	83.9
	Non-SMSA	2	14.3	3	17.6	5	16.1
	New Hampshire						
	SMSA	6	66.7	8	57.1	14	60.9
	Non-SMSA	3	33.3	6	42.9	9	39.1
	New Jersey						
	SMSA	24	80.0	50	79.4	74	79.6
	Non-SMSA	6	20.0	13	20.6	19	20.4
	New Mexico						
	SMSA	4	26.7	12	31.6	16	30.2
	Non-SMSA	11	73.3	26	68.4	37	69.8
	New York						
	SMSA	76	81.7	182	89.7	258	87.2
	Non-SMSA	17	18.3	21	10.3	38	12.8
	North Carolina						
	SMSA	14	36.8	25	41.0	39	39.4
	Non-SMSA	24	63.2	36	59.0	60	60.6
	North Dakota						
	SMSA	0	0.0	2	22.2	2	15.4
	Non-SMSA	4	100.0	7	77.8	11	84.6
	Ohio						
	SMSA	66	72.5	140	80.0	206	77.4
	Non-SMSA	25	27.5	35	20.0	60	22.6
	Oklahoma						
	SMSA	17	68.0	47	61.8	64	63.4
	Non-SMSA	8	32.0	29	38.2	37	36.6
	Oregon						
	SMSA	13	61.9	24	57.1	37	58.7
	Non-SMSA	8	38.1	18	42.9	26	41.3
	Pennsylvania						
	SMSA	62	79.5	139	82.2	201	81.4
	Non-SMSA	16	20.5	30	17.8	46	18.6

Table 4 (continued)
Number and Percent of Suicides for All Persons 15-24
Years of Age by Age Group and SMSA Status by State
United States, 1970 and 1978

Year	SMSA Status	Age Group				Total	
		15-19		20-24		15-24	
		No.	Percent	No.	Percent	No.	Percent
1978	Rhode Island						
	SMSA	2	100.0	16	100.0	18	100.0
	Non-SMSA	0	0.0	0	0.0	0	0.0
	South Carolina						
	SMSA	13	48.1	22	44.9	35	46.1
	Non-SMSA	14	51.9	27	55.1	41	53.9
	South Dakota						
	SMSA	1	16.7	4	33.3	5	27.8
	Non-SMSA	5	83.3	8	66.7	13	72.2
	Tennessee						
	SMSA	14	45.2	25	50.0	39	48.1
	Non-SMSA	17	54.8	25	50.0	42	51.9
	Texas						
	SMSA	97	84.3	199	83.6	296	83.9
	Non-SMSA	18	15.7	39	16.4	57	16.1
	Utah						
	SMSA	8	66.7	22	78.6	30	75.0
	Non-SMSA	4	33.3	6	21.4	10	25.0
	Vermont						
	SMSA	0	0.0	0	0.0	0	0.0
	Non-SMSA	5	100.0	10	100.0	15	100.0
	Virginia						
	SMSA	21	58.3	56	68.3	77	65.3
	Non-SMSA	15	41.7	26	31.7	41	34.7
	Washington						
	SMSA	25	75.8	35	57.4	60	63.8
	Non-SMSA	8	24.2	26	42.6	34	36.2
	West Virginia						
	SMSA	5	41.7	1	5.6	6	20.0
	Non-SMSA	7	58.3	17	94.4	24	80.0
	Wisconsin						
	SMSA	40	69.0	57	71.2	97	70.3
	Non-SMSA	18	31.0	23	28.7	41	29.7
	Wyoming						
	SMSA	0	0.0	0	0.0	0	0.0
	Non-SMSA	4	100.0	10	100.0	14	100.0

Table 5
Suicide Rates* for All Persons 15-24 Years of Age
by Age Group and SMSA Status by State
United States, 1970 and 1978

Year	SMSA Status	Age Group		Total
		15-19 Rate	20-24 Rate	15-24 Rate
1970	SMSA	6.2	13.1	9.5
	Non-SMSA	5.1	10.0	7.2
	Total	5.9	12.2	8.8
Alabama				
	SMSA	2.3	7.1	4.4
	Non-SMSA	3.6	6.0	4.7
Alaska				
	SMSA	—	—	—
	Non-SMSA	7.3	24.3	17.1
Arizona				
	SMSA	8.7	22.2	15.0
	Non-SMSA	6.4	22.2	13.2
Arkansas				
	SMSA	5.5	8.5	6.9
	Non-SMSA	8.5	7.3	8.0
California				
	SMSA	12.4	24.1	18.1
	Non-SMSA	9.9	13.8	11.7
Colorado				
	SMSA	11.2	18.0	14.6
	Non-SMSA	3.0	11.7	6.7
Connecticut				
	SMSA	6.6	8.5	7.5
	Non-SMSA	0.0	15.5	7.2
Delaware				
	SMSA	5.4	20.1	12.0
	Non-SMSA	0.0	21.3	10.4
1970	District of Columbia			
	SMSA	1.5	10.1	6.2
	Non-SMSA	—	—	—
Florida				
	SMSA	7.8	14.3	10.9
	Non-SMSA	7.6	5.0	6.5
Georgia				
	SMSA	5.6	13.0	9.4
	Non-SMSA	3.9	6.4	5.0
Hawaii				
	SMSA	1.7	8.1	5.3
	Non-SMSA	7.4	0.0	4.6

*Rates per 100,000 population

— = Not Applicable

SMSA Status = Residence in a Standard Metropolitan Statistical Area county

Table 5 (continued)
Suicide Rates* for All Persons 15-24 Years of Age
by Age Group and SMSA Status by State
United States, 1970 and 1978

Year	SMSA Status	Age Group		Total
		15-19 Rate	20-24 Rate	15-24 Rate
1970	Idaho			
	SMSA	9.0	22.5	15.0
	Non-SMSA	9.5	22.3	14.8
	Illinois			
	SMSA	4.9	10.2	7.3
	Non-SMSA	4.8	8.8	6.5
	Indiana			
	SMSA	6.7	13.2	9.7
	Non-SMSA	3.7	8.6	5.9
	Iowa			
	SMSA	4.1	11.1	7.3
	Non-SMSA	3.9	5.7	4.7
	Kansas			
	SMSA	1.1	11.6	6.0
	Non-SMSA	7.7	12.6	10.0
	Kentucky			
	SMSA	1.7	9.5	5.3
	Non-SMSA	2.0	7.5	4.4
	Louisiana			
	SMSA	2.5	10.6	6.2
	Non-SMSA	5.1	7.6	6.2
	Maine			
	SMSA	3.8	9.2	6.2
	Non-SMSA	8.9	9.1	9.0
	Maryland			
	SMSA	3.7	13.9	8.6
	Non-SMSA	3.5	10.9	6.8
	Massachusetts			
	SMSA	4.0	11.2	7.4
	Non-SMSA	7.3	0.0	4.0
	Michigan			
	SMSA	6.9	12.1	9.3
	Non-SMSA	6.2	11.3	8.4
	Minnesota			
	SMSA	5.9	11.6	8.6
	Non-SMSA	3.0	8.8	5.1
	Mississippi			
	SMSA	12.0	10.4	11.3
	Non-SMSA	2.1	5.2	3.4

Table 5 (continued)
Suicide Rates* for All Persons 15-24 Years of Age
by Age Group and SMSA Status by State
United States, 1970 and 1978

Year	SMSA Status	Age Group		Total
		15-19 Rate	20-24 Rate	15-24 Rate
1970	Missouri			
	SMSA	11.4	6.0	8.9
	Non-SMSA	3.1	11.4	6.7
	Montana			
	SMSA	18.2	6.9	12.9
	Non-SMSA	5.5	16.1	9.9
	Nebraska			
	SMSA	0.0	6.4	3.2
	Non-SMSA	1.2	11.3	5.2
	Nevada			
	SMSA	3.1	18.1	10.7
	Non-SMSA	12.2	31.9	20.7
	New Hampshire			
	SMSA	5.3	11.8	8.4
	Non-SMSA	0.0	8.0	3.6
	New Jersey			
	SMSA	3.8	7.0	5.3
	Non-SMSA	2.8	11.5	6.6
	New Mexico			
	SMSA	9.3	39.0	23.2
	Non-SMSA	10.8	20.0	14.7
	New York			
	SMSA	3.8	7.8	5.7
	Non-SMSA	4.6	12.9	8.2
	North Carolina			
	SMSA	4.7	7.1	6.0
	Non-SMSA	4.8	6.3	5.5
	North Dakota			
	SMSA	0.0	0.0	0.0
	Non-SMSA	8.9	4.9	7.2
	Ohio			
	SMSA	4.8	12.8	8.5
	Non-SMSA	6.1	11.2	8.3
	Oklahoma			
	SMSA	4.2	9.2	6.7
	Non-SMSA	4.1	6.7	5.2
	Oregon			
	SMSA	6.5	14.2	10.1
	Non-SMSA	3.7	15.7	8.6
	Pennsylvania			
	SMSA	5.3	14.1	9.2
	Non-SMSA	6.4	7.8	7.0

Table 5 (continued)
Suicide Rates* for All Persons 15-24 Years of Age
by Age Group and SMSA Status by State
United States, 1970 and 1978

Year	SMSA Status	Age Group		Total
		15-19 Rate	20-24 Rate	15-24 Rate
1970	Rhode Island			
	SMSA	2.3	6.8	4.6
	Non-SMSA	—	—	—
	South Carolina			
	SMSA	1.8	8.1	5.0
	Non-SMSA	4.1	10.1	6.7
	South Dakota			
	SMSA	0.0	0.0	0.0
	Non-SMSA	8.3	7.2	7.9
	Tennessee			
	SMSA	5.8	9.0	7.3
	Non-SMSA	3.1	9.7	6.1
	Texas			
	SMSA	6.6	13.8	10.0
	Non-SMSA	3.4	9.7	6.2
	Utah			
	SMSA	11.0	19.9	15.2
	Non-SMSA	18.6	10.9	15.5
	Vermont			
	SMSA	—	—	—
	Non-SMSA	9.0	13.8	11.1
	Virginia			
	SMSA	6.9	11.1	9.1
	Non-SMSA	6.1	16.7	10.8
	Washington			
	SMSA	5.2	15.1	10.0
	Non-SMSA	5.9	18.7	11.5
	West Virginia			
	SMSA	1.9	4.8	3.2
	Non-SMSA	4.2	4.6	4.3
	Wisconsin			
	SMSA	4.4	9.9	7.0
	Non-SMSA	6.4	10.4	8.0
	Wyoming			
	SMSA	—	—	—
	Non-SMSA	18.0	24.1	20.6

Table 5 (continued)
Suicide Rates* for All Persons 15-24 Years of Age
by Age Group and SMSA Status by State
United States, 1970 and 1978

Year	SMSA Status	Age Group		Total
		15-19 Rate	20-24 Rate	15-24 Rate
1978	SMSA	8.0	18.0	13.0
	Non-SMSA	8.0	14.4	11.1
	Total	8.0	16.9	12.4
Alabama				
	SMSA	6.2	16.1	11.1
	Non-SMSA	5.6	8.9	7.2
Alaska				
	SMSA	—	—	—
	Non-SMSA	25.2	24.6	24.8
Arizona				
	SMSA	14.0	32.8	23.5
	Non-SMSA	17.4	26.3	21.6
Arkansas				
	SMSA	8.0	16.6	11.3
	Non-SMSA	5.4	14.9	10.0
California				
	SMSA	8.7	19.9	14.4
	Non-SMSA	7.7	15.2	11.5
Colorado				
	SMSA	9.9	25.9	18.3
	Non-SMSA	1.2	21.8	11.1
Connecticut				
	SMSA	4.7	17.8	11.0
	Non-SMSA	23.9	39.1	31.2
Delaware				
	SMSA	14.8	24.2	19.3
	Non-SMSA	10.9	5.4	8.1
District of Columbia				
	SMSA	0.0	9.5	5.2
	Non-SMSA	—	—	—
Florida				
	SMSA	7.8	19.7	13.8
	Non-SMSA	11.0	19.9	15.2
Georgia				
	SMSA	5.5	22.9	14.5
	Non-SMSA	8.1	8.8	8.4
Hawaii				
	SMSA	17.9	12.7	15.0
	Non-SMSA	18.4	30.7	23.9

Table 5 (continued)
Suicide Rates* for All Persons 15-24 Years of Age
by Age Group and SMSA Status by State
United States, 1970 and 1978

Year	SMSA Status	Age Group		Total
		15-19 Rate	20-24 Rate	15-24 Rate
1978	Idaho			
	SMSA	20.9	13.2	16.9
	Non-SMSA	13.3	16.2	14.7
	Illinois			
	SMSA	6.8	15.1	10.8
	Non-SMSA	7.3	13.1	10.0
	Indiana			
	SMSA	7.6	15.0	11.2
	Non-SMSA	9.9	16.7	13.1
	Iowa			
	SMSA	3.8	16.0	9.8
	Non-SMSA	10.8	10.1	10.5
	Kansas			
	SMSA	7.5	28.3	18.0
	Non-SMSA	5.2	11.6	8.4
	Kentucky			
	SMSA	12.0	17.4	14.6
	Non-SMSA	6.2	12.7	9.4
	Louisiana			
	SMSA	7.5	20.2	13.8
	Non-SMSA	10.8	14.0	12.3
	Maine			
	SMSA	10.1	14.4	12.2
	Non-SMSA	7.7	5.4	6.6
	Maryland			
	SMSA	9.3	21.5	15.2
	Non-SMSA	4.3	11.0	7.5
	Massachusetts			
	SMSA	3.9	13.1	8.4
	Non-SMSA	11.0	11.8	11.4
	Michigan			
	SMSA	9.9	21.3	15.4
	Non-SMSA	10.4	18.6	14.1
	Minnesota			
	SMSA	7.2	20.7	14.1
	Non-SMSA	8.0	11.5	9.5
	Mississippi			
	SMSA	10.4	12.5	11.4
	Non-SMSA	7.3	13.1	10.0

Table 5 (continued)
Suicide Rates* for All Persons 15-24 Years of Age
by Age Group and SMSA Status by State
United States, 1970 and 1978

Year	SMSA Status	Age Group		Total
		15-19 Rate	20-24 Rate	15-24 Rate
1978	Missouri			
	SMSA	9.9	17.1	13.5
	Non-SMSA	8.7	12.6	10.5
	Montana			
	SMSA	5.2	35.6	20.6
	Non-SMSA	16.2	25.2	20.5
	Nebraska			
	SMSA	5.6	8.7	7.2
	Non-SMSA	7.4	13.2	10.0
	Nevada			
	SMSA	25.0	26.8	25.9
	Non-SMSA	18.8	31.1	24.6
	New Hampshire			
	SMSA	12.2	16.9	14.5
	Non-SMSA	8.5	17.6	13.0
	New Jersey			
	SMSA	4.8	11.5	8.0
	Non-SMSA	3.4	8.6	5.8
	New Mexico			
	SMSA	10.1	29.1	19.8
	Non-SMSA	12.3	31.7	21.6
	New York			
	SMSA	5.6	14.2	9.8
	Non-SMSA	6.3	8.9	7.5
	North Carolina			
	SMSA	6.6	10.9	8.8
	Non-SMSA	7.0	10.9	8.9
	North Dakota			
	SMSA	0.0	18.1	9.7
	Non-SMSA	6.8	12.1	9.4
	Ohio			
	SMSA	8.2	18.6	13.2
	Non-SMSA	10.0	16.2	12.8
	Oklahoma			
	SMSA	12.7	32.2	22.8
	Non-SMSA	5.8	23.2	14.0
	Oregon			
	SMSA	9.7	17.4	13.6
	Non-SMSA	8.3	20.8	14.2
	Pennsylvania			
	SMSA	7.3	17.9	12.4
	Non-SMSA	6.5	13.8	9.9

Table 5 (continued)
Suicide Rates* for All Persons 15-24 Years of Age
by Age Group and SMSA Status by State
United States, 1970 and 1978

Year	SMSA Status	Age Group		Total
		15-19 Rate	20-24 Rate	15-24 Rate
1978	Rhode Island			
	SMSA	2.3	18.3	10.2
	Non-SMSA	—	—	—
	South Carolina			
	SMSA	10.5	16.4	13.6
	Non-SMSA	7.7	16.3	11.8
	South Dakota			
	SMSA	9.3	38.1	23.6
	Non-SMSA	8.1	14.3	11.1
	Tennessee			
	SMSA	6.9	12.4	9.7
	Non-SMSA	7.8	11.9	9.8
	Texas			
	SMSA	10.1	19.9	15.1
	Non-SMSA	5.7	12.7	9.1
	Utah			
	SMSA	7.7	19.2	13.7
	Non-SMSA	12.3	20.3	16.1
	Vermont			
	SMSA	—	—	—
	Non-SMSA	10.0	22.0	15.7
	Virginia			
	SMSA	7.0	16.5	12.1
	Non-SMSA	7.4	13.3	10.3
	Washington			
	SMSA	10.9	15.1	13.0
	Non-SMSA	5.8	20.0	12.7
	West Virginia			
	SMSA	10.1	2.1	6.1
	Non-SMSA	5.5	14.4	9.8
	Wisconsin			
	SMSA	14.9	21.8	18.3
	Non-SMSA	8.5	13.4	10.7
	Wyoming			
	SMSA	—	—	—
	Non-SMSA	9.6	23.6	26.6

Sources: National Center for Health Statistics Annual Mortality Data Files;
U.S. Bureau of the Census Population estimates data file